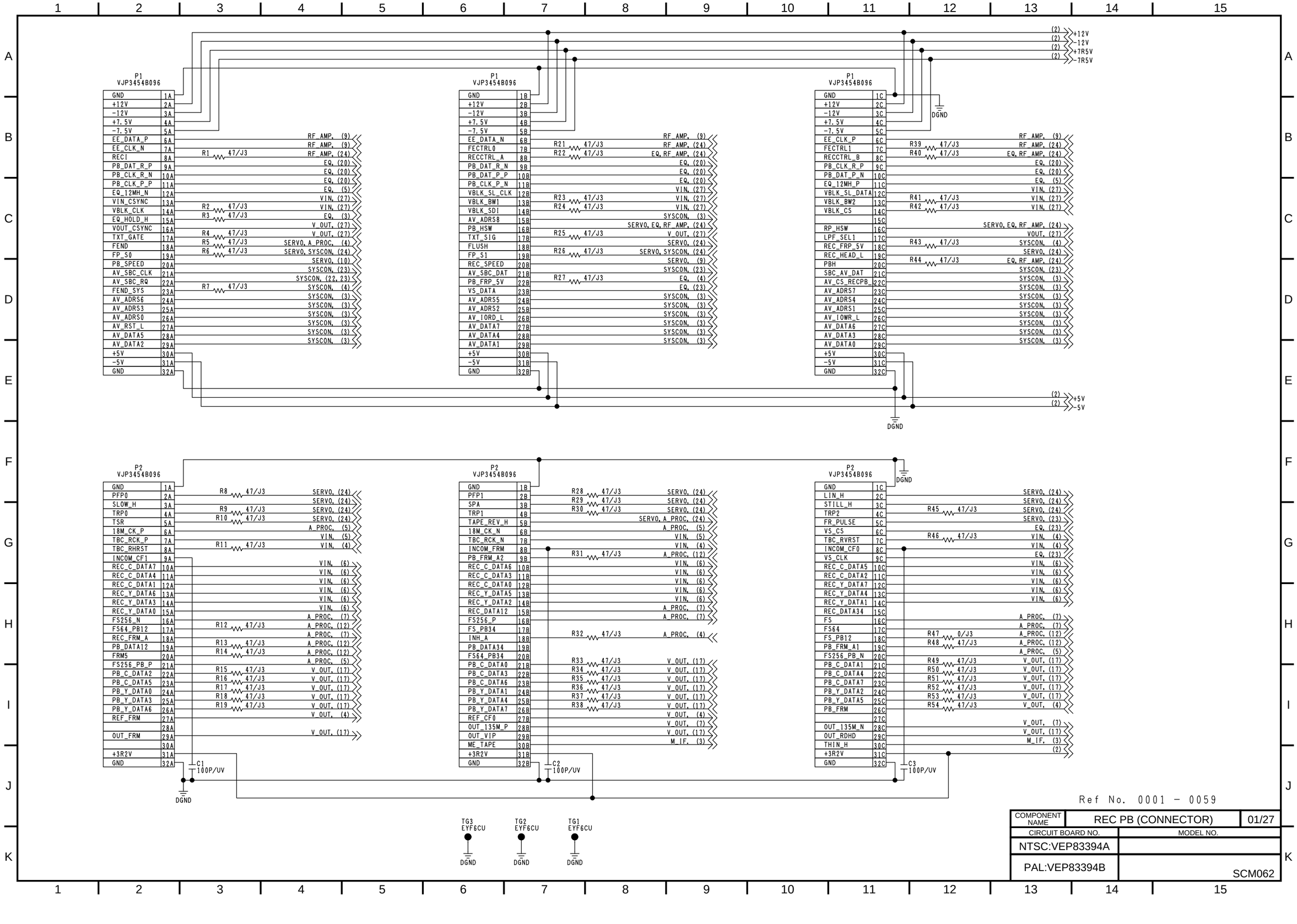
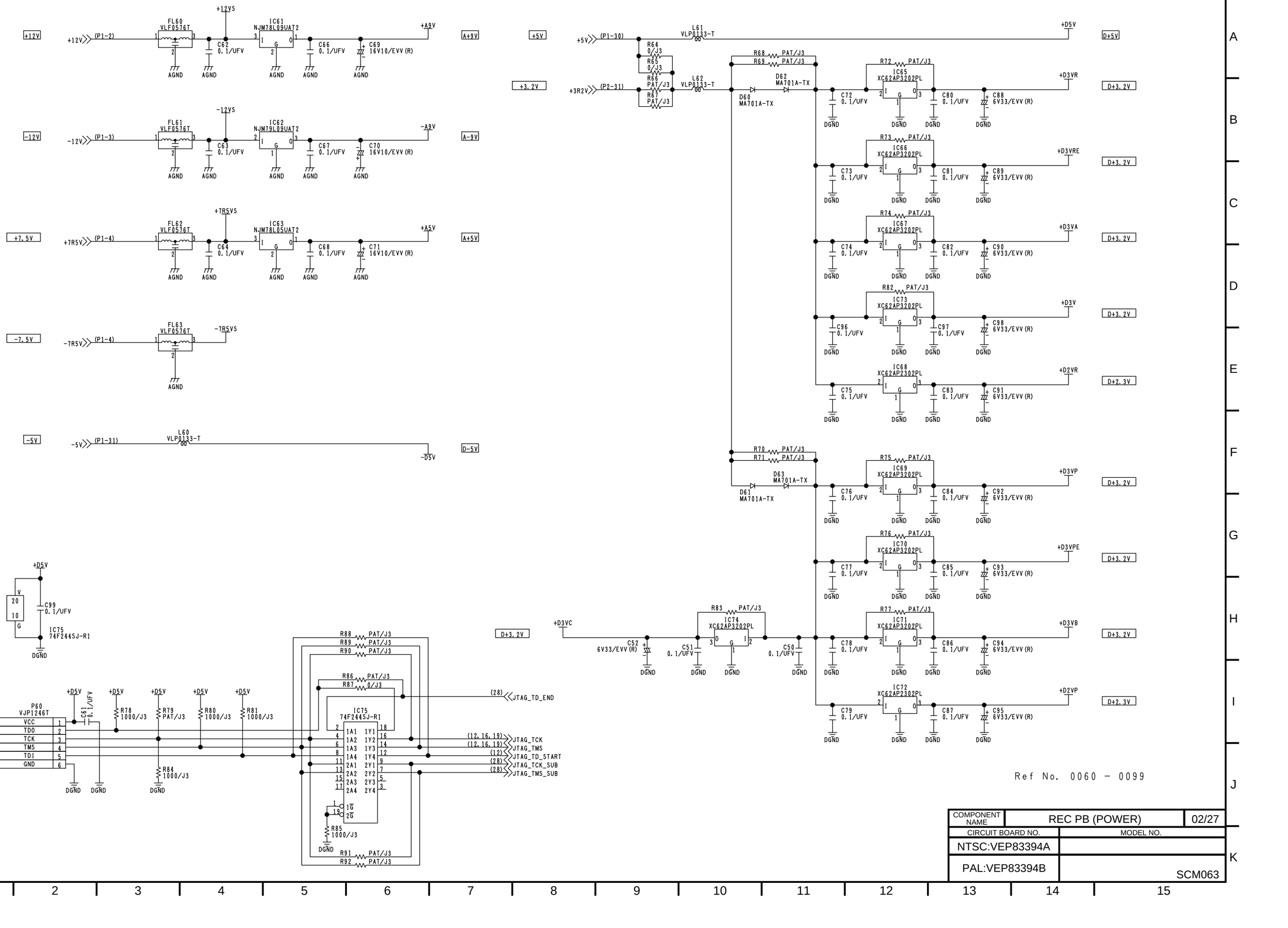
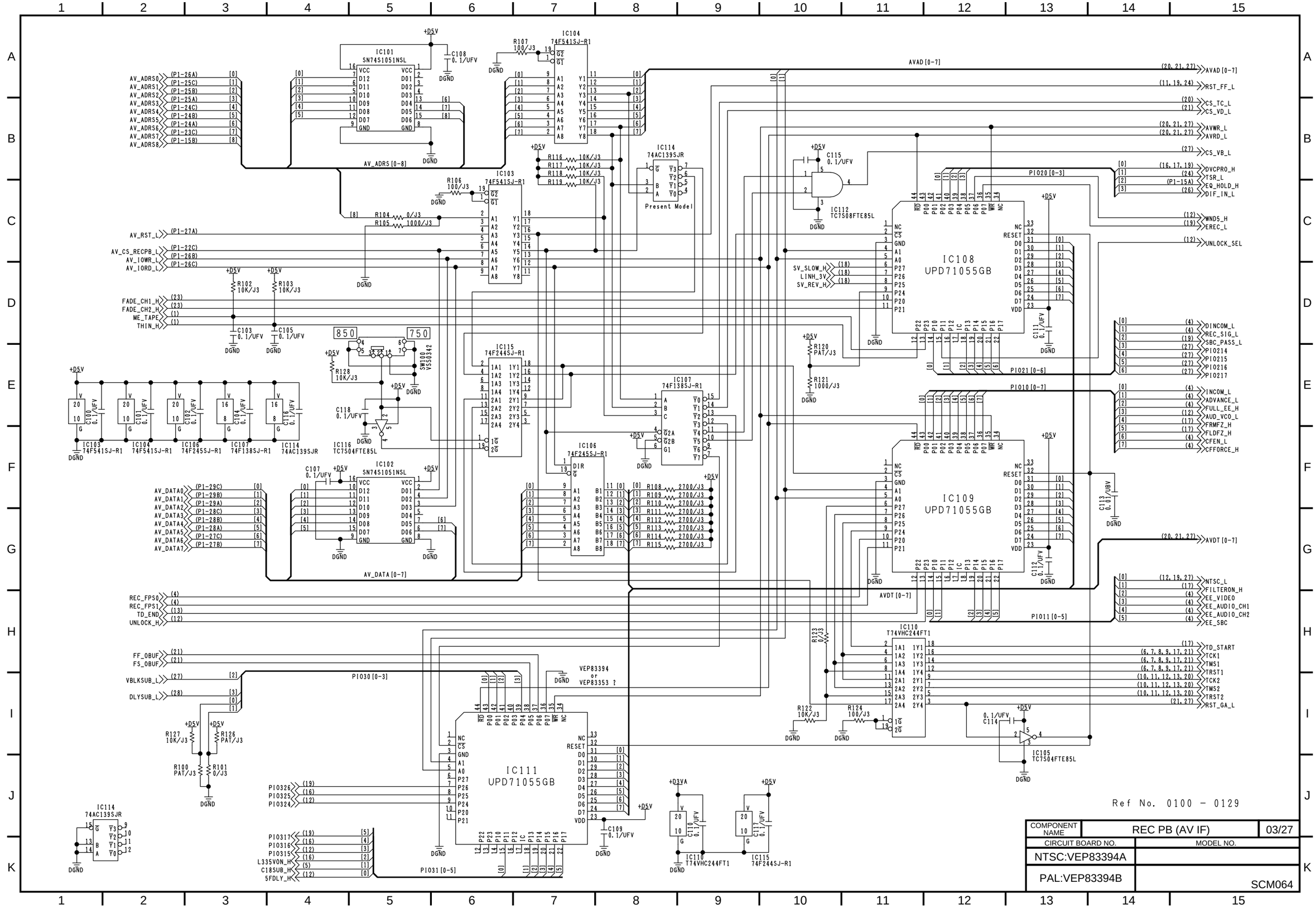

P1
VJP3454B096
GND 1A
+12V 2A
-12V 3A
+7.5V 4A
-7.5V 5A
EE_DATA_P 6A
EE_CLK_N 7A
RECI 8A
PB_DAT_R_P 9A
PB_CLK_R_N 10A
PB_CLK_P_P 11A
EQ_12MH_N 12A
VIN_CSYNC 13A
VBLK_CLK 14A
EQ_HOLD_H 15A
VOUT_CSYNC 16A
TXT_GATE 17A
FEND 18A
FP_S0 19A
PB_SPEED 20A
AV_SBC_CLK 21A
AV_SBC_RQ 22A
FEND_SYS 23A
AV_ADRS6 24A
AV_ADRS3 25A
AV_ADRS0 26A
AV_RST_L 27A
AV_DATA5 28A
AV_DATA2 29A
+5V 30A
-5V 31A
GND 32A
R1 47/J3 RF_AMP, (9)
RF_AMP, (9)
RF_AMP, (24)
R2 47/J3 EQ, (20)
R3 47/J3 EQ, (20)
EQ, (20)
R4 47/J3 EQ, (5)
R5 47/J3 VIN, (27)
R6 47/J3 VIN, (27)
EQ, (3)
V_OUT, (27)
V_OUT, (27)
SERVO, A_PROC, (4)
SERVO, SYSCON, (24)
SERVO, (10)
SYSCON, (23)
SYSCON, (22, 23)
R7 47/J3 SYSCON, (4)
SYSCON, (3)
SYSCON, (3)
SYSCON, (3)
SYSCON, (3)
SYSCON, (3)
SYSCON, (3)
P1
VJP3454B096
GND 1B
+12V 2B
-12V 3B
+7.5V 4B
-7.5V 5B
EE_DATA_N 6B
FECTRL0 7B
RECCTRL_A 8B
PB_DAT_R_N 9B
PB_DAT_P_P 10B
PB_CLK_P_N 11B
VBLK_SL_CLK 12B
VBLK_BW1 13B
VBLK_SDI 14B
AV_ADRS8 15B
PB_HSW 16B
TXT_SIG 17B
FLUSH 18B
FP_S1 19B
REC_SPEED 20B
AV_SBC_DAT 21B
PB_FRP_5V 22B
VS_DATA 23B
AV_ADRS5 24B
AV_ADRS2 25B
AV_IORD_L 26B
AV_DATA7 27B
AV_DATA4 28B
AV_DATA1 29B
+5V 30B
-5V 31B
GND 32B
R21 47/J3 RF_AMP, (9)
RF_AMP, (24)
R22 47/J3 EQ, RF_AMP, (24)
EQ, (20)
EQ, (20)
EQ, (20)
VIN, (27)
R23 47/J3 VIN, (27)
R24 47/J3 VIN, (27)
SYSCON, (3)
SERVO, EQ, RF_AMP, (24)
R25 47/J3 V_OUT, (27)
SERVO, (24)
R26 47/J3 SERVO, SYSCON, (24)
SERVO, (9)
SYSCON, (23)
R27 47/J3 EQ, (4)
EQ, (23)
SYSCON, (3)
SYSCON, (3)
SYSCON, (3)
SYSCON, (3)
SYSCON, (3)
SYSCON, (3)
P1
VJP3454B096
GND 1C
+12V 2C
-12V 3C
+7.5V 4C
-7.5V 5C
EE_CLK_P 6C
FECTRL1 7C
RECCTRL_B 8C
PB_CLK_R_P 9C
PB_DAT_P_N 10C
EQ_12MH_P 11C
VBLK_SL_DATA 12C
VBLK_BW2 13C
VBLK_CS 14C
15C
RP_HSW 16C
LPF_SEL1 17C
REC_FRP_5V 18C
REC_HEAD_L 19C
PBH 20C
SBC_AV_DAT 21C
AV_CS_RECPB 22C
AV_ADRS7 23C
AV_ADRS4 24C
AV_ADRS1 25C
AV_IOWR_L 26C
AV_DATA6 27C
AV_DATA3 28C
AV_DATA0 29C
+5V 30C
-5V 31C
GND 32C
R39 47/J3 RF_AMP, (9)
RF_AMP, (24)
R40 47/J3 EQ, RF_AMP, (24)
EQ, (20)
EQ, (20)
EQ, (5)
VIN, (27)
R41 47/J3 VIN, (27)
R42 47/J3 VIN, (27)
SERVO, EQ, RF_AMP, (24)
VOUT, (27)
R43 47/J3 SYSCON, (4)
SERVO, (24)
R44 47/J3 EQ, RF_AMP, (24)
SYSCON, (23)
SYSCON, (3)
SYSCON, (3)
SYSCON, (3)
SYSCON, (3)
SYSCON, (3)
SYSCON, (3)
SYSCON, (3)
(2) +12V
(2) -12V
(2) +7R5V
(2) -7R5V
DGND
(2) +5V
(2) -5V
DGND
P2
VJP3454B096
GND 1A
PFP0 2A
SLOW_H 3A
TRP0 4A
TSR 5A
18M_CK_P 6A
TBC_RCK_P 7A
TBC_RHRST 8A
INCOM_CF1 9A
REC_C_DATA7 10A
REC_C_DATA4 11A
REC_C_DATA1 12A
REC_Y_DATA6 13A
REC_Y_DATA3 14A
REC_Y_DATA0 15A
FS256_N 16A
FS64_PB12 17A
REC_FRM_A 18A
PB_DATA12 19A
FRM5 20A
FS256_PB_P 21A
PB_C_DATA2 22A
PB_C_DATA5 23A
PB_Y_DATA0 24A
PB_Y_DATA3 25A
PB_Y_DATA6 26A
REF_FRM 27A
28A
OUT_FRM 29A
30A
+3R2V 31A
GND 32A
R8 47/J3 SERVO, (24)
SERVO, (24)
R9 47/J3 SERVO, (24)
R10 47/J3 SERVO, (24)
A_PROC, (5)
VIN, (5)
R11 47/J3 VIN, (4)
VIN, (6)
VIN, (6)
VIN, (6)
VIN, (6)
VIN, (6)
VIN, (6)
A_PROC, (7)
R12 47/J3 A_PROC, (12)
A_PROC, (7)
R13 47/J3 A_PROC, (12)
R14 47/J3 A_PROC, (12)
A_PROC, (5)
R15 47/J3 V_OUT, (17)
R16 47/J3 V_OUT, (17)
R17 47/J3 V_OUT, (17)
R18 47/J3 V_OUT, (17)
R19 47/J3 V_OUT, (17)
V_OUT, (4)
V_OUT, (17)
C1 100P/UV
DGND
P2
VJP3454B096
GND 1B
PFP1 2B
SPA 3B
TRP1 4B
TAPE_REV_H 5B
18M_CK_N 6B
TBC_RCK_N 7B
INCOM_FRM 8B
PB_FRM_A2 9B
REC_C_DATA6 10B
REC_C_DATA3 11B
REC_C_DATA0 12B
REC_Y_DATA5 13B
REC_Y_DATA2 14B
REC_DATA12 15B
FS256_P 16B
FS_PB34 17B
INH_A 18B
PB_DATA34 19B
FS64_PB34 20B
PB_C_DATA0 21B
PB_C_DATA3 22B
PB_C_DATA6 23B
PB_Y_DATA1 24B
PB_Y_DATA4 25B
PB_Y_DATA7 26B
REF_CF0 27B
OUT_135M_P 28B
OUT_VIP 29B
ME_TAPE 30B
+3R2V 31B
GND 32B
R28 47/J3 SERVO, (24)
R29 47/J3 SERVO, (24)
R30 47/J3 SERVO, (24)
SERVO, A_PROC, (24)
A_PROC, (5)
VIN, (5)
VIN, (4)
R31 47/J3 A_PROC, (12)
VIN, (6)
VIN, (6)
VIN, (6)
VIN, (6)
VIN, (6)
A_PROC, (7)
A_PROC, (7)
R32 47/J3 A_PROC, (4)
R33 47/J3 V_OUT, (17)
R34 47/J3 V_OUT, (17)
R35 47/J3 V_OUT, (17)
R36 47/J3 V_OUT, (17)
R37 47/J3 V_OUT, (17)
R38 47/J3 V_OUT, (17)
V_OUT, (4)
V_OUT, (7)
V_OUT, (17)
M_IF, (3)
C2 100P/UV
DGND
P2
VJP3454B096
GND 1C
LIN_H 2C
STILL_H 3C
TRP2 4C
FR_PULSE 5C
VS_CS 6C
TBC_RVRST 7C
INCOM_CF0 8C
VS_CLK 9C
REC_C_DATA5 10C
REC_C_DATA2 11C
REC_Y_DATA7 12C
REC_Y_DATA4 13C
REC_Y_DATA1 14C
REC_DATA34 15C
FS 16C
FS64 17C
FS_PB12 18C
PB_FRM_A1 19C
FS256_PB_N 20C
PB_C_DATA1 21C
PB_C_DATA4 22C
PB_C_DATA7 23C
PB_Y_DATA2 24C
PB_Y_DATA5 25C
PB_FRM 26C
27C
OUT_135M_N 28C
OUT_RDHD 29C
THIN_H 30C
+3R2V 31C
GND 32C
R45 47/J3 SERVO, (24)
SERVO, (24)
SERVO, (24)
SERVO, (23)
EQ, (23)
R46 47/J3 VIN, (4)
VIN, (4)
EQ, (23)
VIN, (6)
VIN, (6)
VIN, (6)
VIN, (6)
VIN, (6)
A_PROC, (7)
A_PROC, (7)
R47 0/J3 A_PROC, (12)
R48 47/J3 A_PROC, (12)
A_PROC, (5)
R49 47/J3 V_OUT, (17)
R50 47/J3 V_OUT, (17)
R51 47/J3 V_OUT, (17)
R52 47/J3 V_OUT, (17)
R53 47/J3 V_OUT, (17)
R54 47/J3 V_OUT, (4)
V_OUT, (7)
V_OUT, (17)
M_IF, (3)
(2)
C3 100P/UV
DGND
TG3 EYF6CU
TG2 EYF6CU
TG1 EYF6CU
DGND
DGND
DGND
Ref No. 0001 - 0059
COMPONENT NAME
REC PB (CONNECTOR)
01/27
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP83394A
PAL:VEP83394B
SCM062


+12V
(P1-2)
FL60
VLF0576T
+12VS
IC61
NJM78L09UAT2
C62
0.1/UFV
C66
0.1/UFV
C69
16V10/EVV(R)
+A9V
A+9V
-12V
(P1-3)
FL61
VLF0576T
-12VS
IC62
NJM79L09UAT2
C63
0.1/UFV
C67
0.1/UFV
C70
16V10/EVV(R)
-A9V
A-9V
+7.5V
+7R5V
(P1-4)
FL62
VLF0576T
+7R5VS
IC63
NJM78L05UAT2
C64
0.1/UFV
C68
0.1/UFV
C71
16V10/EVV(R)
+A5V
A+5V
-7.5V
-7R5V
(P1-4)
FL63
VLF0576T
-7R5VS
-5V
-5V
(P1-31)
L60
VLP0133-T
-D5V
D-5V
AGND
+5V
+5V
(P1-30)
L61
VLP0133-T
+D5V
D+5V
+3.2V
+3R2V
(P2-31)
L62
VLP0133-T
D60
MA701A-TX
D62
MA701A-TX
R64
0/J3
R65
0/J3
R66
PAT/J3
R67
PAT/J3
R68
PAT/J3
R69
PAT/J3
IC65
XC62AP3202PL
C72
0.1/UFV
C80
0.1/UFV
C88
6V33/EVV(R)
+D3VR
D+3.2V
R73
PAT/J3
IC66
XC62AP3202PL
C73
0.1/UFV
C81
0.1/UFV
C89
6V33/EVV(R)
+D3VRE
D+3.2V
R74
PAT/J3
IC67
XC62AP3202PL
C74
0.1/UFV
C82
0.1/UFV
C90
6V33/EVV(R)
+D3VA
D+3.2V
R82
PAT/J3
IC73
XC62AP3202PL
C96
0.1/UFV
C97
0.1/UFV
C98
6V33/EVV(R)
+D3V
D+3.2V
IC68
XC62AP2302PL
C75
0.1/UFV
C83
0.1/UFV
C91
6V33/EVV(R)
+D2VR
D+2.3V
R70
PAT/J3
R71
PAT/J3
D61
MA701A-TX
D63
MA701A-TX
R75
PAT/J3
IC69
XC62AP3202PL
C76
0.1/UFV
C84
0.1/UFV
C92
6V33/EVV(R)
+D3VP
D+3.2V
R76
PAT/J3
IC70
XC62AP3202PL
C77
0.1/UFV
C85
0.1/UFV
C93
6V33/EVV(R)
+D3VPE
D+3.2V
+D3VC
R83
PAT/J3
IC74
XC62AP3202PL
C52
6V33/EVV(R)
C51
0.1/UFV
C50
0.1/UFV
R77
PAT/J3
IC71
XC62AP3202PL
C78
0.1/UFV
C86
0.1/UFV
C94
6V33/EVV(R)
+D3VB
D+3.2V
IC72
XC62AP2302PL
C79
0.1/UFV
C87
0.1/UFV
C95
6V33/EVV(R)
+D2VP
D+2.3V
+D5V
C99
0.1/UFV
IC75
74F244SJ-R1
P60
VJP1246T
VCC
TDO
TCK
TMS
TDI
GND
C61
0.1/UFV
R78
1000/J3
R79
PAT/J3
R80
1000/J3
R81
1000/J3
R84
1000/J3
R88
PAT/J3
R89
PAT/J3
R90
PAT/J3
R86
PAT/J3
R87
0/J3
R85
1000/J3
R91
PAT/J3
R92
PAT/J3
D+3.2V
(28)
JTAG_TD_END
(12,16,19)
JTAG_TCK
(12,16,19)
JTAG_TMS
(12)
JTAG_TD_START
(28)
JTAG_TCK_SUB
(28)
JTAG_TMS_SUB
DGND
Ref No. 0060 - 0099
COMPONENT NAME
REC PB (POWER)
02/27
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP83394A
PAL:VEP83394B
SCM063


IC101 SN74S1051NSL
IC102 SN74S1051NSL
IC103 74F541SJ-R1
IC104 74F541SJ-R1
IC105 TC7S04FTE85L
IC106 74F245SJ-R1
IC107 74F138SJ-R1
IC108 UPD71055GB
IC109 UPD71055GB
IC110 T74VHC244FT1
IC111 UPD71055GB
IC112 TC7S08FTE85L
IC114 74AC139SJR
IC115 74F244SJ-R1
IC116 TC7S04FTE85L
Present Model
VEP83394 or VEP83353 ?
AV_ADRS[0-8]
AV_DATA[0-7]
AVAD[0-7]
AVDT[0-7]
PIO20[0-3]
PIO21[0-6]
PIO10[0-7]
PIO11[0-5]
PIO30[0-3]
PIO31[0-5]
AV_RST_L
AV_CS_RECPB_L
AV_IOWR_L
AV_IORD_L
FADE_CH1_H
FADE_CH2_H
ME_TAPE
THIN_H
REC_FPS0
REC_FPS1
TD_END
UNLOCK_H
FF_OBUF
FS_OBUF
VBLKSUB_L
DLYSUB_L
SV_SLOW_H
LINH_3V
SV_REV_H
RST_FF_L
CS_TC_L
CS_VD_L
AVWR_L
AVRD_L
CS_VB_L
DVCPRO_H
TSR_L
EQ_HOLD_H
DIF_IN_L
WND5_H
EREC_L
UNLOCK_SEL
DINCOM_L
REC_SIG_L
SBC_PASS_L
INCOM_L
ADVANCE_L
FULL_EE_H
AUD_VCO_L
FRMFZ_H
FLDFZ_H
CFEN_L
CFFORCE_H
NTSC_L
FILTERON_H
EE_VIDEO
EE_AUDIO_CH1
EE_AUDIO_CH2
EE_SBC
TD_START
TCK1
TMS1
TRST1
TCK2
TMS2
TRST2
RST_GA_L
L335VON_H
C18SUB_H
5FDLY_H
+D5V
+03VA
DGND
Ref No. 0100 - 0129
COMPONENT NAME
REC PB (AV IF)
03/27
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP83394A
PAL:VEP83394B
SCM064

IC131
UPD65841G025

MPL/BUS_SEL

	NTSC	PAL
R150	PAT/J3	0/J3
R151	0/J3	PAT/J3

	NTSC	PAL
R148	PAT/J3	10K/J3
R149	0/J3	PAT/J3

IC544 T74VHC32FTP1 (sheet14)

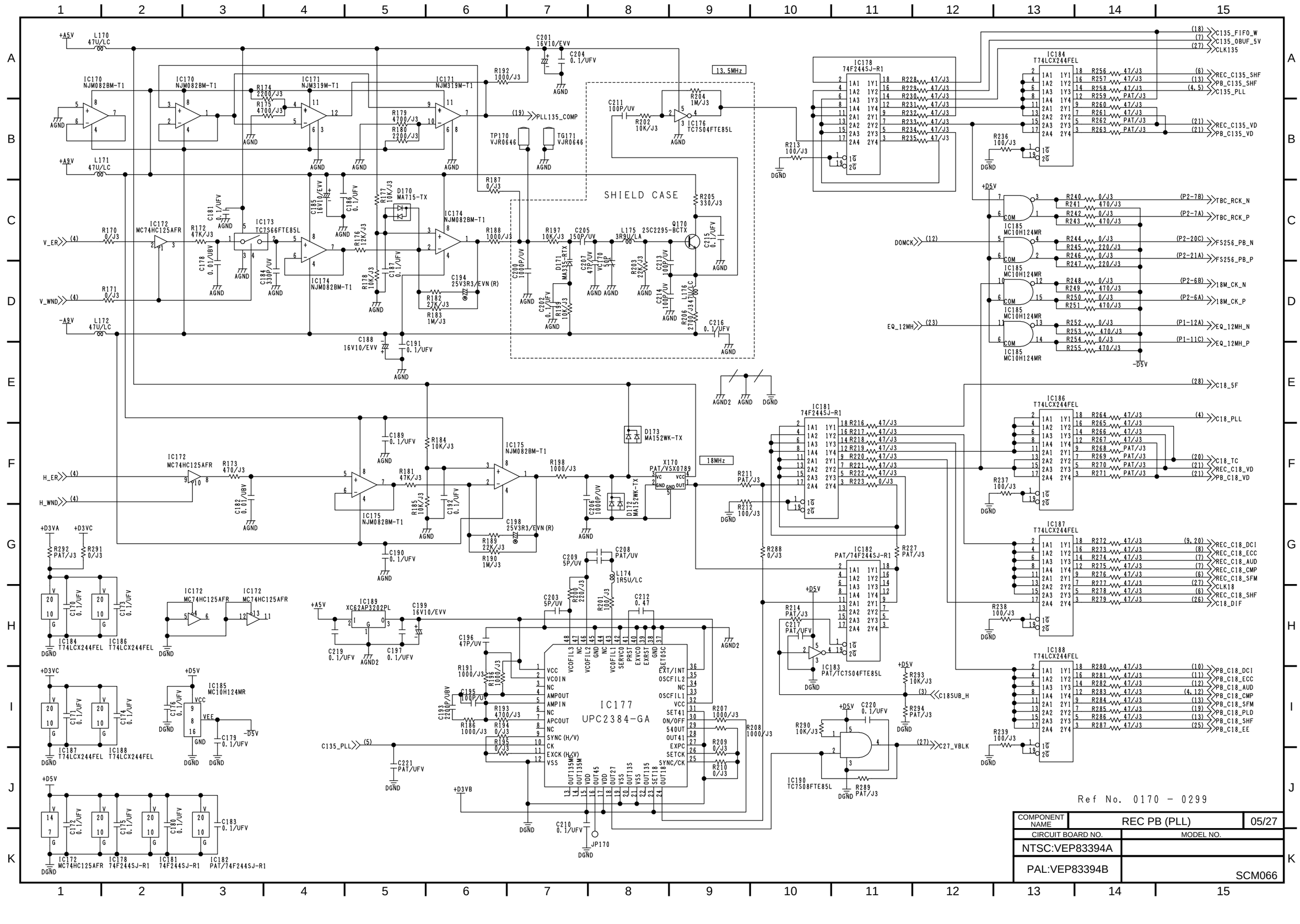
IC130 TCVHC153FEL

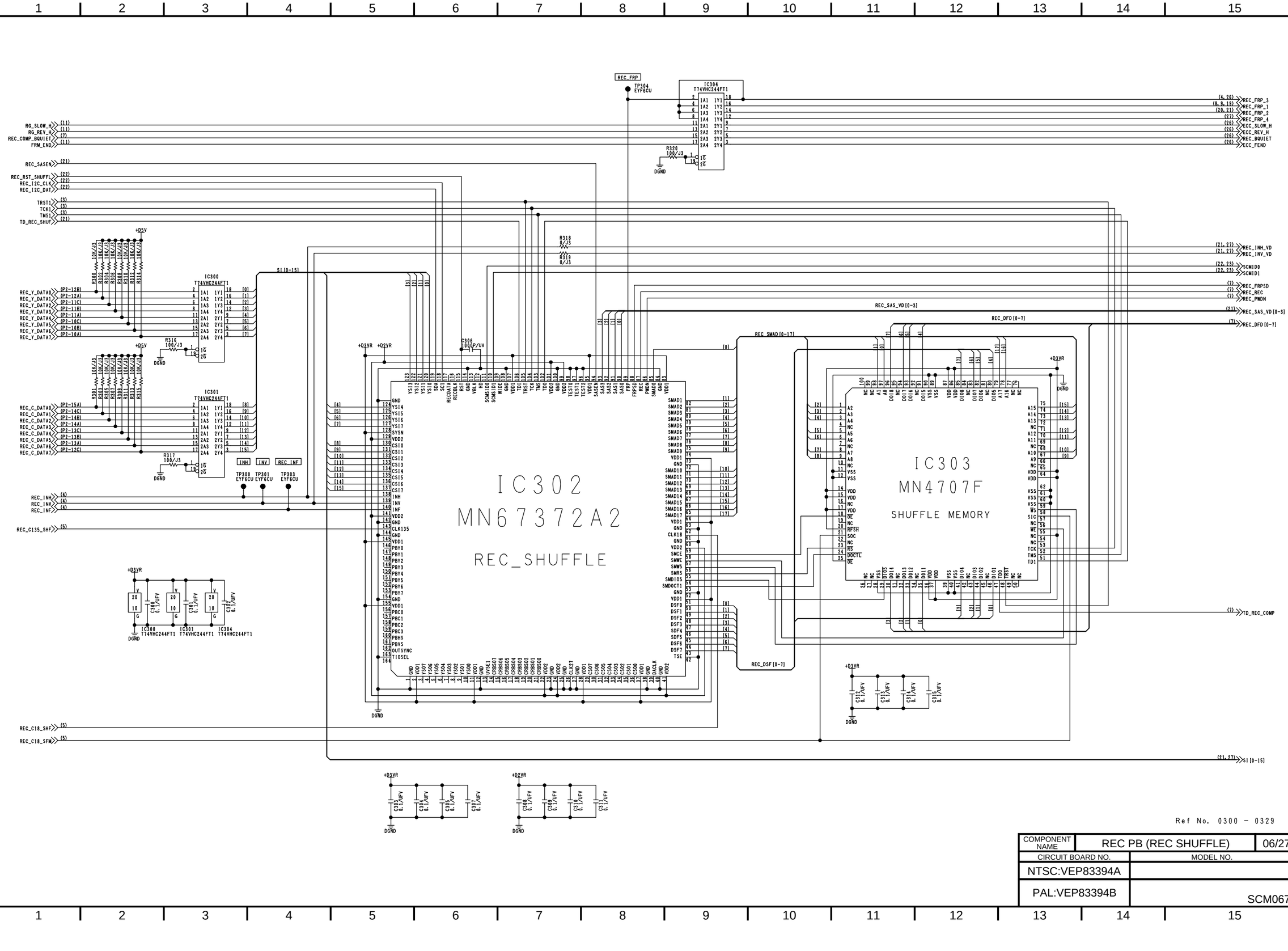
IC132 T74VHCT244F1

IC133 T74VHCT244F1

Ref No. 0130 - 0169

COMPONENT NAME	REC PB (MPL/BUS SEL)	04/27
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP83394A		
PAL:VEP83394B		SCM065


SHIELD CASE
IC177 UPC2384-GA
13.5MHz
18MHz
IC170 NJM082BM-T1
IC171 NJM319M-T1
IC172 MC74HC125AFR
IC173 TC7S66FTE85L
IC174 NJM082BM-T1
IC175 NJM082BM-T1
IC176 TC7S04FTE85L
IC178 74F244SJ-R1
IC181 74F244SJ-R1
IC182 PAT/74F244SJ-R1
IC183 PAT/TC7S04FTE85L
IC184 T74LCX244FEL
IC185 MC10H124MR
IC186 T74LCX244FEL
IC187 T74LCX244FEL
IC188 T74LCX244FEL
IC189 XC62AP3202PL
IC190 TC7S08FTE85L
D170 MA715-TX
D171 MA3X151-RTX
D172 MA152WK-TX
D173 MA152WK-TX
X170 PAT/VSX0789
Q170 2SC2295-BCTX
TP170 VJR0646
TG171 VJR0646
+A5V
+A9V
-A9V
+D5V
-D5V
+D3VA
+D3VC
+D3VB
AGND
AGND2
DGND
V_ER
V_WND
H_ER
H_WND
DOMCK
EQ_12MH
C135_PLL
PLL135_COMP
C135_FIFO_W
C135_OBUF_5V
CLK135
REC_C135_SHF
PB_C135_SHF
C135_PLL
REC_C135_VD
PB_C135_VD
TBC_RCK_N
TBC_RCK_P
FS256_PB_N
FS256_PB_P
18M_CK_N
18M_CK_P
EQ_12MH_N
EQ_12MH_P
C18_5F
C18_PLL
C18_TC
REC_C18_VD
PB_C18_VD
REC_C18_DCI
REC_C18_ECC
REC_C18_AUD
REC_C18_CMP
REC_C18_SFM
CLK18
REC_C18_SHF
C18_DIF
PB_C18_DCI
PB_C18_ECC
PB_C18_AUD
PB_C18_CMP
PB_C18_SFM
PB_C18_PLD
PB_C18_SHF
PB_C18_EE
C18SUB_H
C27_VBLK
JP170
Ref No. 0170 - 0299
COMPONENT NAME
REC PB (PLL)
05/27
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP83394A
PAL:VEP83394B
SCM066



Ref No. 0300 - 0329

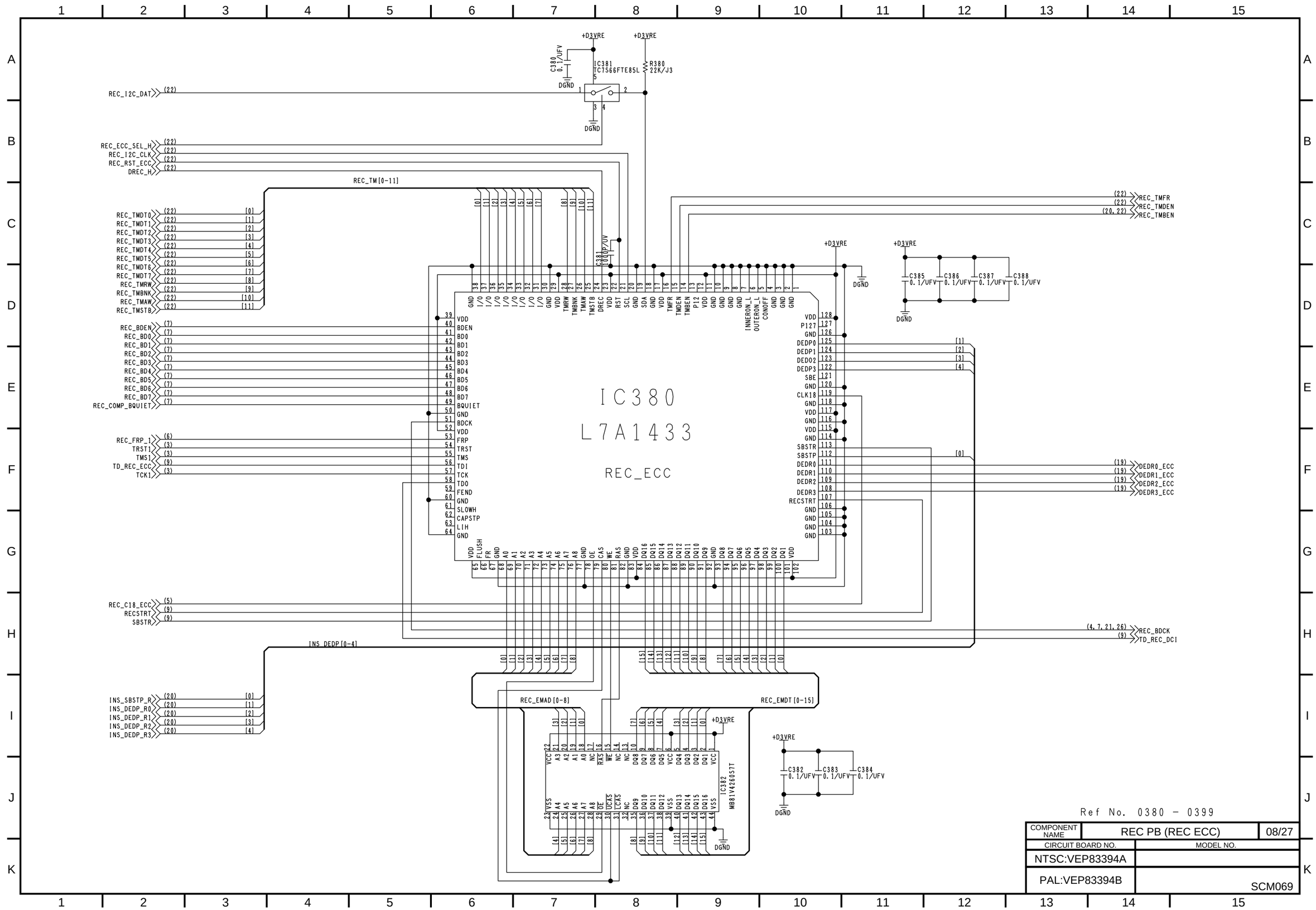
COMPONENT NAME	REC PB (REC SHUFFLE)	06/27
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP83394A		
PAL:VEP83394B		SCM067

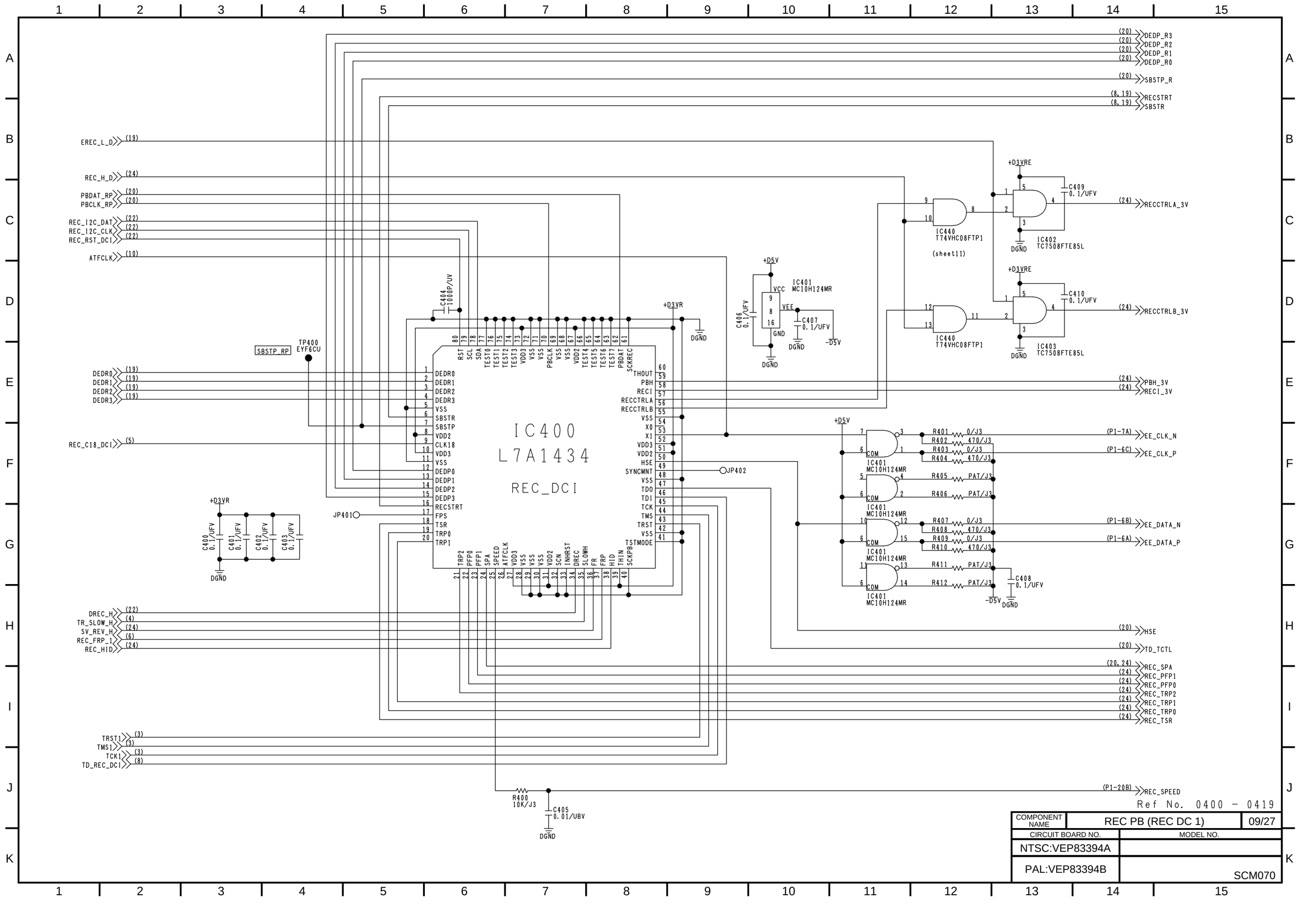
IC334
M65401FP
REC_AUDIO

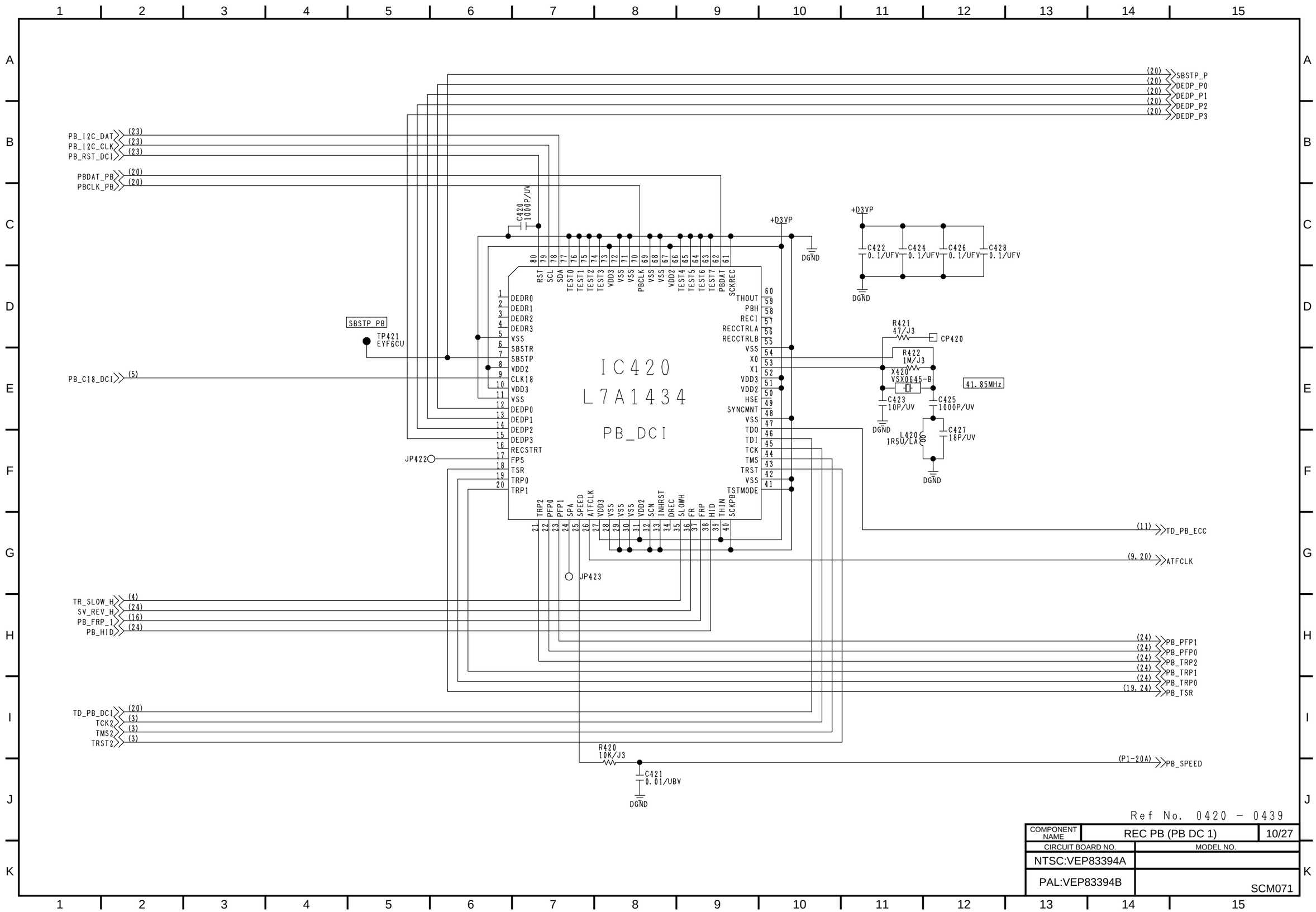
IC335
MN673711
REC_COMP

COMPONENT NAME	REC PB (REC CONT/AUDIO) 07/27
CIRCUIT BOARD NO.	MODEL NO.
NTSC:VEP83394A	
PAL:VEP83394B	SCM068

Ref No. 0330 - 0379


IC380
L7A1433
REC_ECC
IC381
TC7S66FTE85L
C380
0.1/UFV
R380
22K/J3
+D3VRE
DGND
REC_I2C_DAT
REC_ECC_SEL_H
REC_I2C_CLK
REC_RST_ECC
DREC_H
REC_TM[0-11]
REC_TMDT0
REC_TMDT1
REC_TMDT2
REC_TMDT3
REC_TMDT4
REC_TMDT5
REC_TMDT6
REC_TMDT7
REC_TMRW
REC_TMBNK
REC_TMAW
REC_TMSTB
C381
10000P/UV
REC_TMFR
REC_TMDEN
REC_TMBEN
C385
C386
C387
C388
0.1/UFV
REC_BDEN
REC_BD0
REC_BD1
REC_BD2
REC_BD3
REC_BD4
REC_BD5
REC_BD6
REC_BD7
REC_COMP_BQUIET
REC_FRP_1
TRST1
TMS1
TD_REC_ECC
TCK1
DEDP0
DEDP1
DED02
DEDP3
SBE
CLK18
SBSTR
SBSTP
DEDR0
DEDR1
DEDR2
DEDR3
RECSTRT
DEDR0_ECC
DEDR1_ECC
DEDR2_ECC
DEDR3_ECC
REC_C18_ECC
RECSTRT
SBSTR
REC_BDCK
TD_REC_DCI
INS_DEDP[0-4]
INS_SBSTP_R
INS_DEDP_R0
INS_DEDP_R1
INS_DEDP_R2
INS_DEDP_R3
REC_EMAD[0-8]
REC_EMDT[0-15]
IC382
MB81V4260S7T
C382
C383
C384
0.1/UFV
Ref No. 0380 - 0399
COMPONENT NAME
REC PB (REC ECC)
08/27
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP83394A
PAL:VEP83394B
SCM069


IC400
L7A1434
REC_DCI
IC401
MC10H124MR
IC440
T74VHC08FTP1
IC402
TC7S08FTE85L
IC403
TC7S08FTE85L
(sheet11)
TP400
EYF6CU
SBSTP_RP
JP401
JP402
EREC_L_D
REC_H_D
PBDAT_RP
PBCLK_RP
REC_I2C_DAT
REC_I2C_CLK
REC_RST_DCI
ATFCLK
REC_C18_DCI
DEDR0
DEDR1
DEDR2
DEDR3
DREC_H
TR_SLOW_H
SV_REV_H
REC_FRP_1
REC_HID
TRST1
TMS1
TCK1
TD_REC_DCI
DEDP_R3
DEDP_R2
DEDP_R1
DEDP_R0
SBSTP_R
RECSTRT
SBSTR
RECCTRLA_3V
RECCTRLB_3V
PBH_3V
RECI_3V
EE_CLK_N
EE_CLK_P
EE_DATA_N
EE_DATA_P
HSE
TD_TCTL
REC_SPA
REC_PFP1
REC_PFP0
REC_TRP2
REC_TRP1
REC_TRP0
REC_TSR
REC_SPEED
+D3VR
+D3VRE
+D5V
-D5V
DGND
C400 0.1/UFV
C401 0.1/UFV
C402 0.1/UFV
C403 0.1/UFV
C404 1000P/UV
C405 0.01/UBV
C406 0.1/UFV
C407 0.1/UFV
C408 0.1/UFV
C409 0.1/UFV
C410 0.1/UFV
R400 10K/J3
R401 0/J3
R402 470/J3
R403 0/J3
R404 470/J3
R405 PAT/J3
R406 PAT/J3
R407 0/J3
R408 470/J3
R409 0/J3
R410 470/J3
R411 PAT/J3
R412 PAT/J3
Ref No. 0400 - 0419
COMPONENT NAME
REC PB (REC DC 1)
09/27
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP83394A
PAL:VEP83394B
SCM070


IC420
L7A1434
PB_DCI
(20) SBSTP_P
(20) DEDP_P0
(20) DEDP_P1
(20) DEDP_P2
(20) DEDP_P3
PB_I2C_DAT (23)
PB_I2C_CLK (23)
PB_RST_DCI (23)
PBDAT_PB (20)
PBCLK_PB (20)
C420 1000P/UV
+D3VP
DGND
C422 0.1/UFV
C424 0.1/UFV
C426 0.1/UFV
C428 0.1/UFV
SBSTP_PB
TP421 EYF6CU
PB_C18_DCI (5)
R421 47/J3
CP420
R422 1M/J3
X420 VSX0645-B
41.85MHz
C423 10P/UV
C425 1000P/UV
L420 1R5U/LA
C427 18P/UV
JP422
JP423
(11) TD_PB_ECC
(9, 20) ATFCLK
TR_SLOW_H (4)
SV_REV_H (24)
PB_FRP_1 (16)
PB_HID (24)
(24) PB_PFP1
(24) PB_PFP0
(24) PB_TRP2
(24) PB_TRP1
(24) PB_TRP0
(19, 24) PB_TSR
TD_PB_DCI (20)
TCK2 (3)
TMS2 (3)
TRST2 (3)
R420 10K/J3
C421 0.01/UBV
(P1-20A) PB_SPEED
Ref No. 0420 – 0439
COMPONENT NAME
REC PB (PB DC 1)
10/27
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP83394A
PAL:VEP83394B
SCM071

IC441
L7A1433
PB_ECC

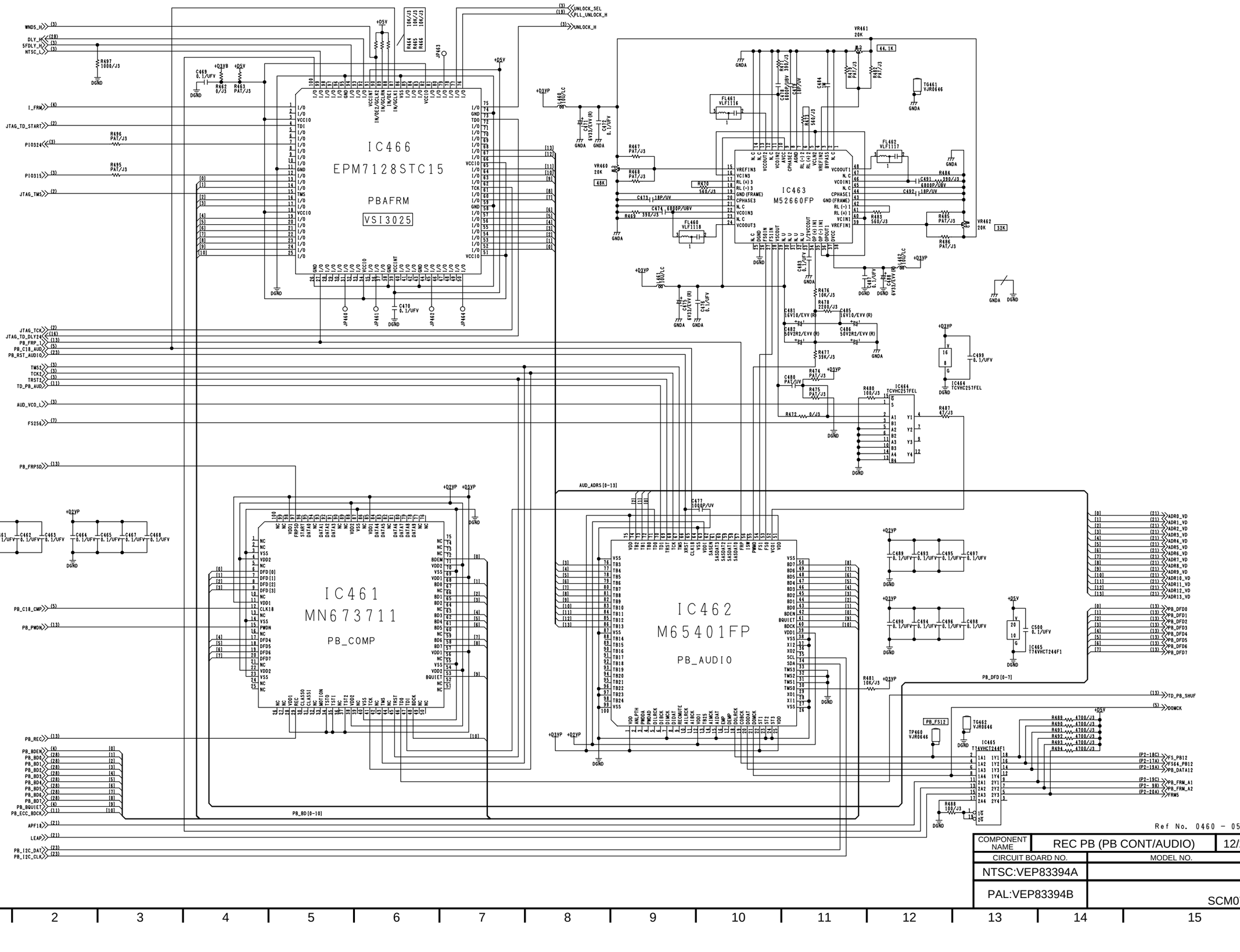
PB_I2C_DAT (23)
PB_ECC_SEL_H (23)
CONCEALON_L (23)
OUTERON_L (23)
INNERON_L (23)
PB_I2C_CLK (23)
PB_RST_ECC (23)
PB_C18_ECC (5)
PB_TMDT0 (23) [0]
PB_TMDT1 (23) [1]
PB_TMDT2 (23) [2]
PB_TMDT3 (23) [3]
PB_TMDT4 (23) [4]
PB_TMDT5 (23) [5]
PB_TMDT6 (23) [6]
PB_TMDT7 (23) [7]
PB_TMRW (23) [8]
PB_TMBNK (23) [9]
PB_TMAW (23) [10]
PB_TMSTB (23) [11]
SBSTP (19) [0]
DEDP0 (19) [1]
DEDP1 (19) [2]
DEDP2 (19) [3]
DEDP3 (19) [4]
PB_FRP_1 (13)
TRST2 (3)
TMS2 (3)
TD_PB_ECC (10)
TCK2 (3)
TR_SLOW_H (4)
SBC_SLOW_H (23)
LINH_3V (24)
SV_REV_H (24)
SBC_REV_H (23)
PB_HID (24)
RST_FF_L (3)
FLUSH_3V (24)
(6, 27) RG_REV_H
(6, 27) RG_SLOW_H
(19, 20) SBE
(12) TD_PB_AUD
(6, 26) FRM_END
(23) PB_TMFR
(23) PB_TMDEN
(23) PB_TMBEN
(4, 28) PB_ECC_BDEN
(4) PB_ECC_BD0
(4) PB_ECC_BD1
(4) PB_ECC_BD2
(4) PB_ECC_BD3
(4) PB_ECC_BD4
(4) PB_ECC_BD5
(4) PB_ECC_BD6
(4) PB_ECC_BD7
(4, 25, 28) PB_ECC_BQUIET
(4, 12, 21, 26, 28) PB_ECC_BDCK

P_BD[0-10]
DEDP[0-4]
PB_TM[0-11]
PB_EMAD[0-8]
PB_EMDT[0-15]

+D3VPE
DGND
C442 0.1/UFV
IC442 TC7S66FTE85L
R443 22K/J3
R444 27K/J3 [0]
R445 27K/J3 [1]
R446 27K/J3 [2]
R447 27K/J3 [3]
R448 27K/J3 [4]
R449 27K/J3 [5]
R450 27K/J3 [6]
R451 27K/J3 [7]
R452 27K/J3 [8]
R453 27K/J3 [9]
C447 0.1/UFV
C448 0.1/UFV
C449 0.1/UFV
C450 0.1/UFV
C444 0.1/UFV
C445 0.1/UFV
C446 0.1/UFV
C443 0.01UP/UV
C441 1000P/UV
C440 0.1/UFV
R440 0/J3
R441 0/J3
R442 1000/J3
IC440 T74VHC08FTP1
IC804 T74VHC74FTP1
IC443 MB81V4260S7T
TP440 EYF6CU FEND
TP441 EYF6CU SBE
(sheet20)
(SHEET9)

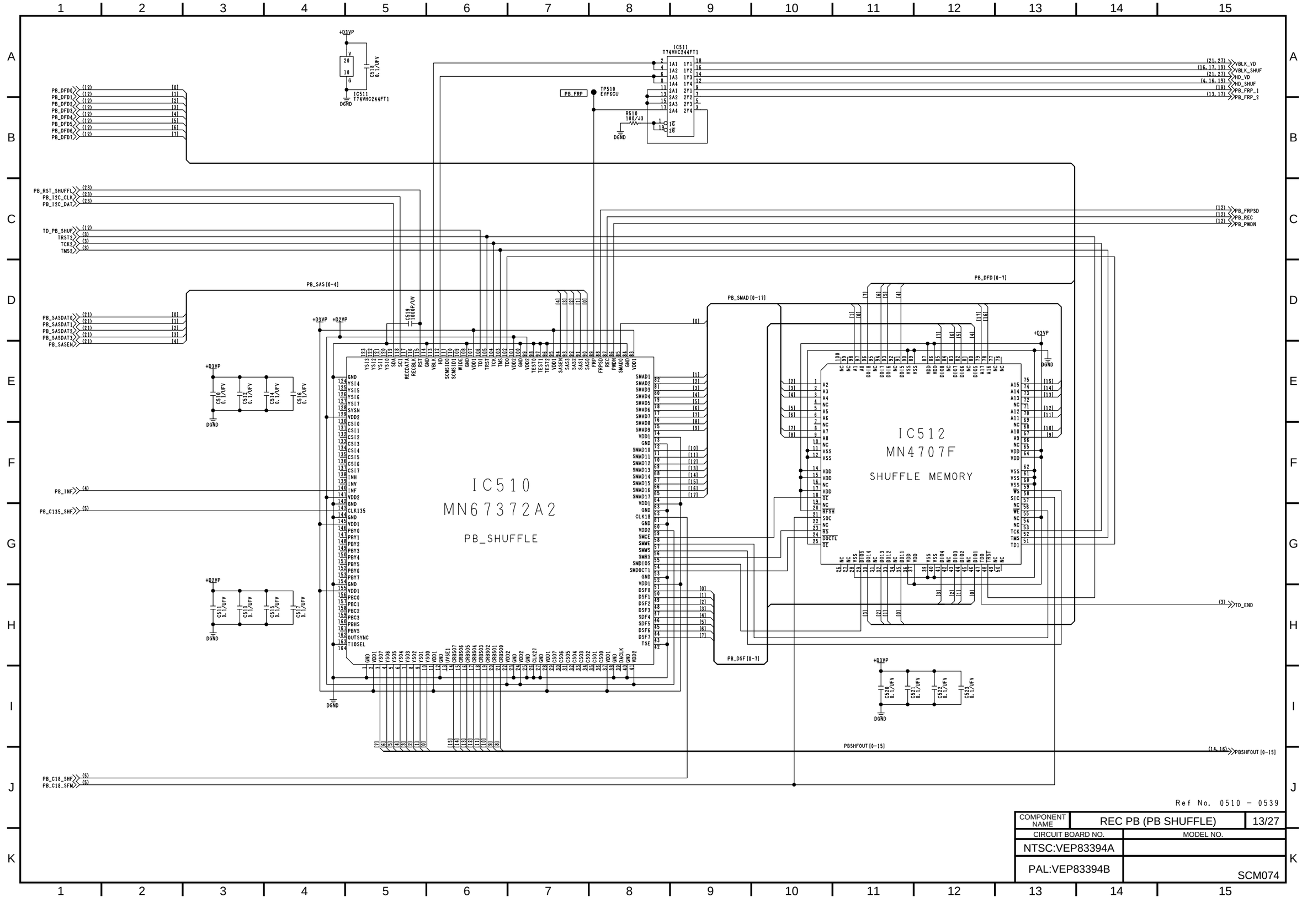
Ref No. 0440 – 0459

COMPONENT NAME	REC PB (PB ECC)	11/27
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP83394A		
PAL:VEP83394B		SCM072



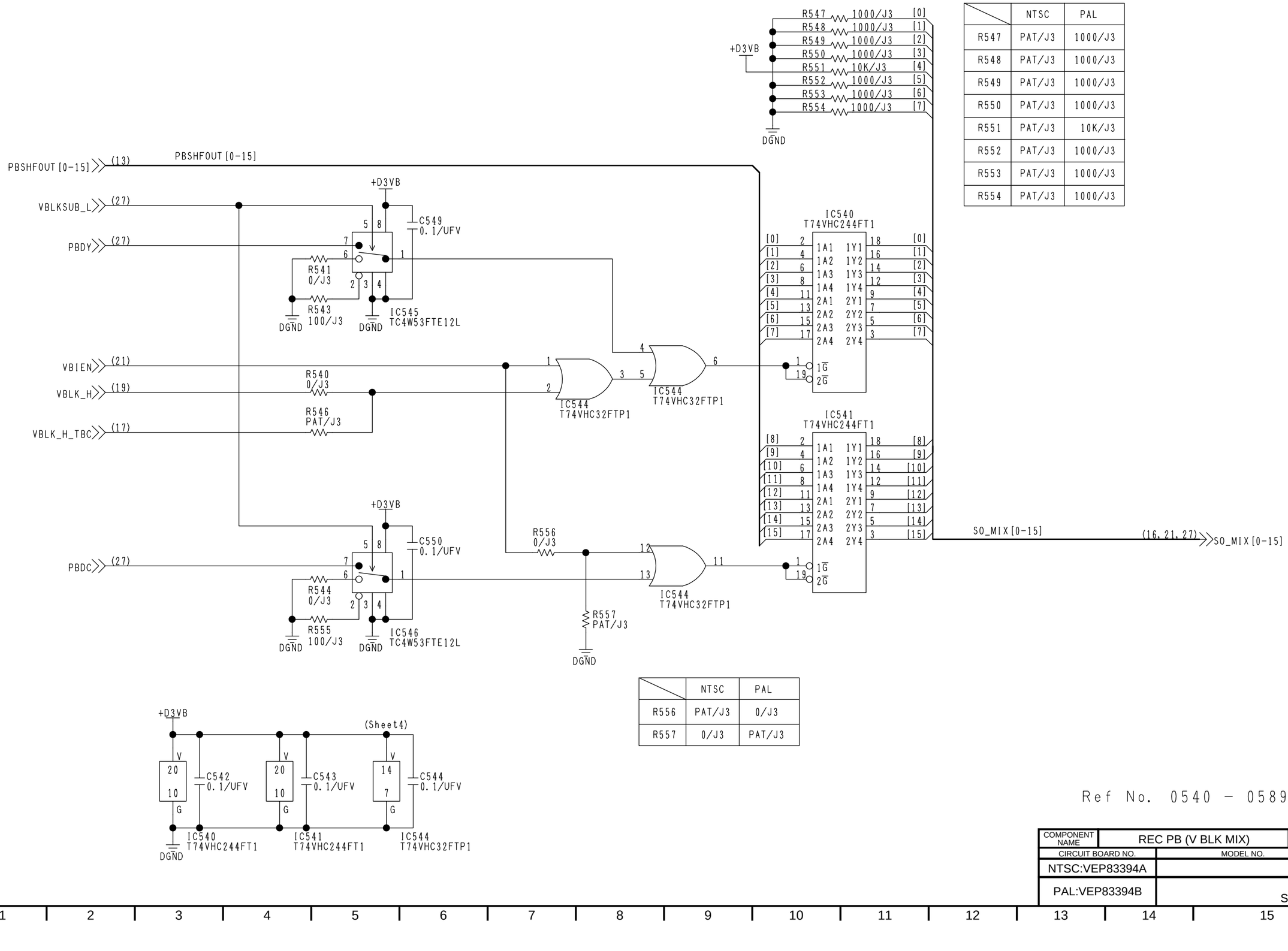
Ref No. 0460 – 0509

COMPONENT NAME	REC PB (PB CONT/AUDIO)	12/27
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP83394A		
PAL:VEP83394B		SCM073



Ref No. 0510 – 0539

COMPONENT NAME	REC PB (PB SHUFFLE)	13/27
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP83394A		
PAL:VEP83394B		SCM074



	NTSC	PAL
R547	PAT/J3	1000/J3
R548	PAT/J3	1000/J3
R549	PAT/J3	1000/J3
R550	PAT/J3	1000/J3
R551	PAT/J3	10K/J3
R552	PAT/J3	1000/J3
R553	PAT/J3	1000/J3
R554	PAT/J3	1000/J3

	NTSC	PAL
R556	PAT/J3	0/J3
R557	0/J3	PAT/J3

Ref No. 0540 - 0589

COMPONENT NAME	REC PB (V BLK MIX)	14/27
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP83394A		
PAL:VEP83394B	SCM075	

[ONLY PAL]

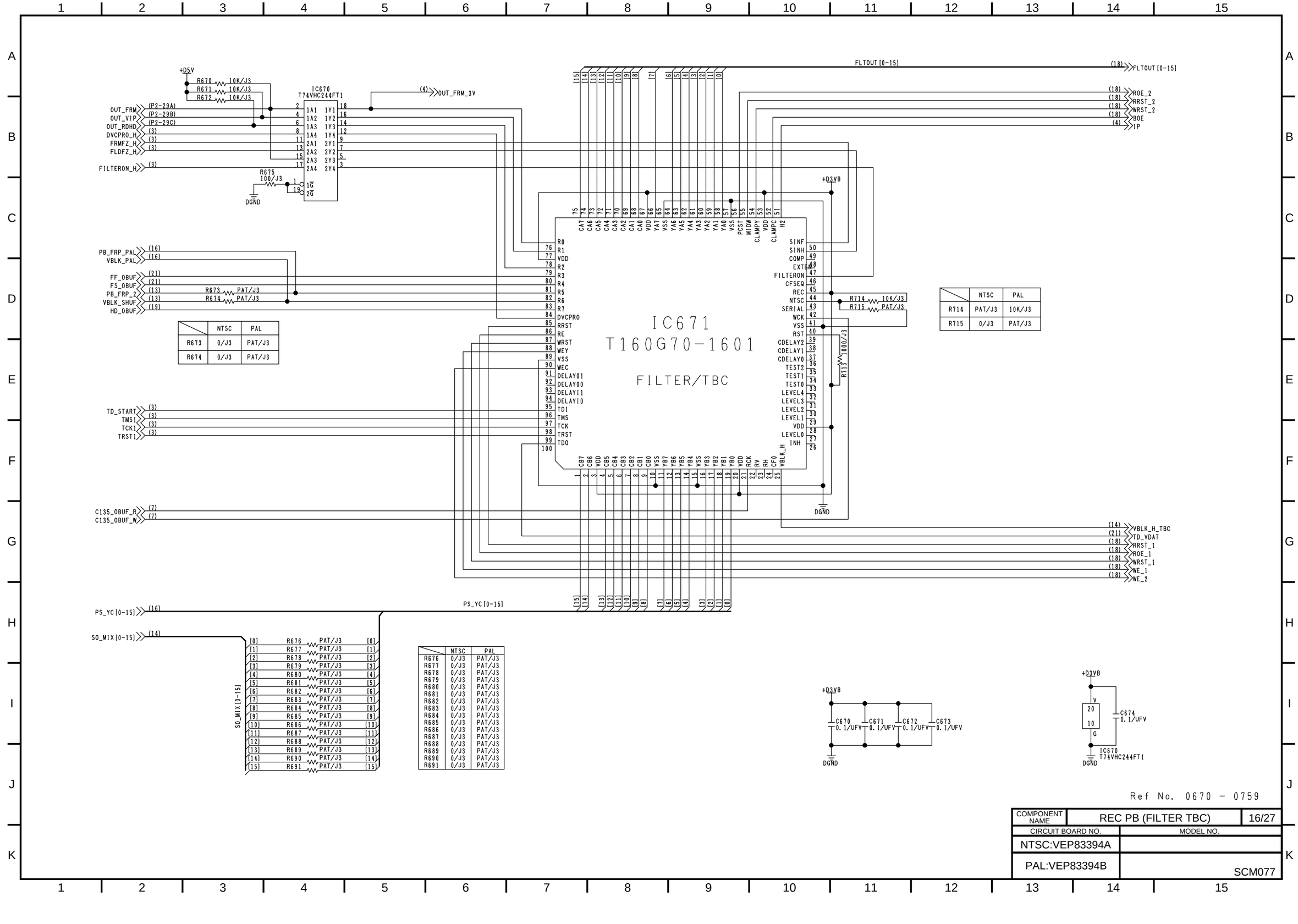
IC642
CG25123-5106
PRE_SHUFFLE

IC641
EPM7128STC15
DLY24
VSI3026

	NTSC	PAL
R654	0/J3	PAT/J3

COMPONENT NAME	REC PB (PRE SHUFFLE)	15/27
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP83394A		
PAL:VEP83394B		SCM076

Ref No. 0640 - 0669



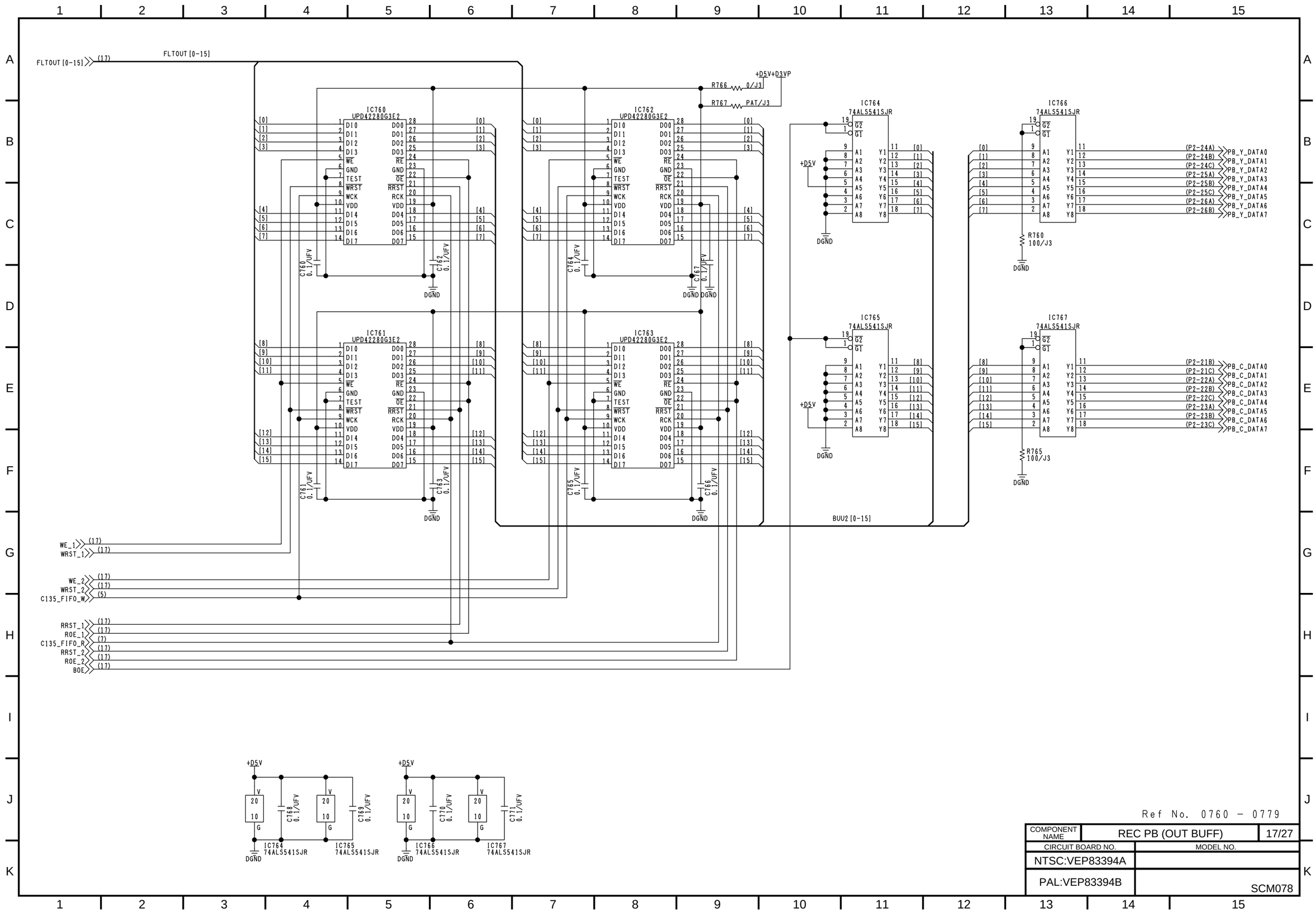
	NTSC	PAL
R673	0/J3	PAT/J3
R674	0/J3	PAT/J3

	NTSC	PAL
R714	PAT/J3	10K/J3
R715	0/J3	PAT/J3

	NTSC	PAL
R676	0/J3	PAT/J3
R677	0/J3	PAT/J3
R678	0/J3	PAT/J3
R679	0/J3	PAT/J3
R680	0/J3	PAT/J3
R681	0/J3	PAT/J3
R682	0/J3	PAT/J3
R683	0/J3	PAT/J3
R684	0/J3	PAT/J3
R685	0/J3	PAT/J3
R686	0/J3	PAT/J3
R687	0/J3	PAT/J3
R688	0/J3	PAT/J3
R689	0/J3	PAT/J3
R690	0/J3	PAT/J3
R691	0/J3	PAT/J3

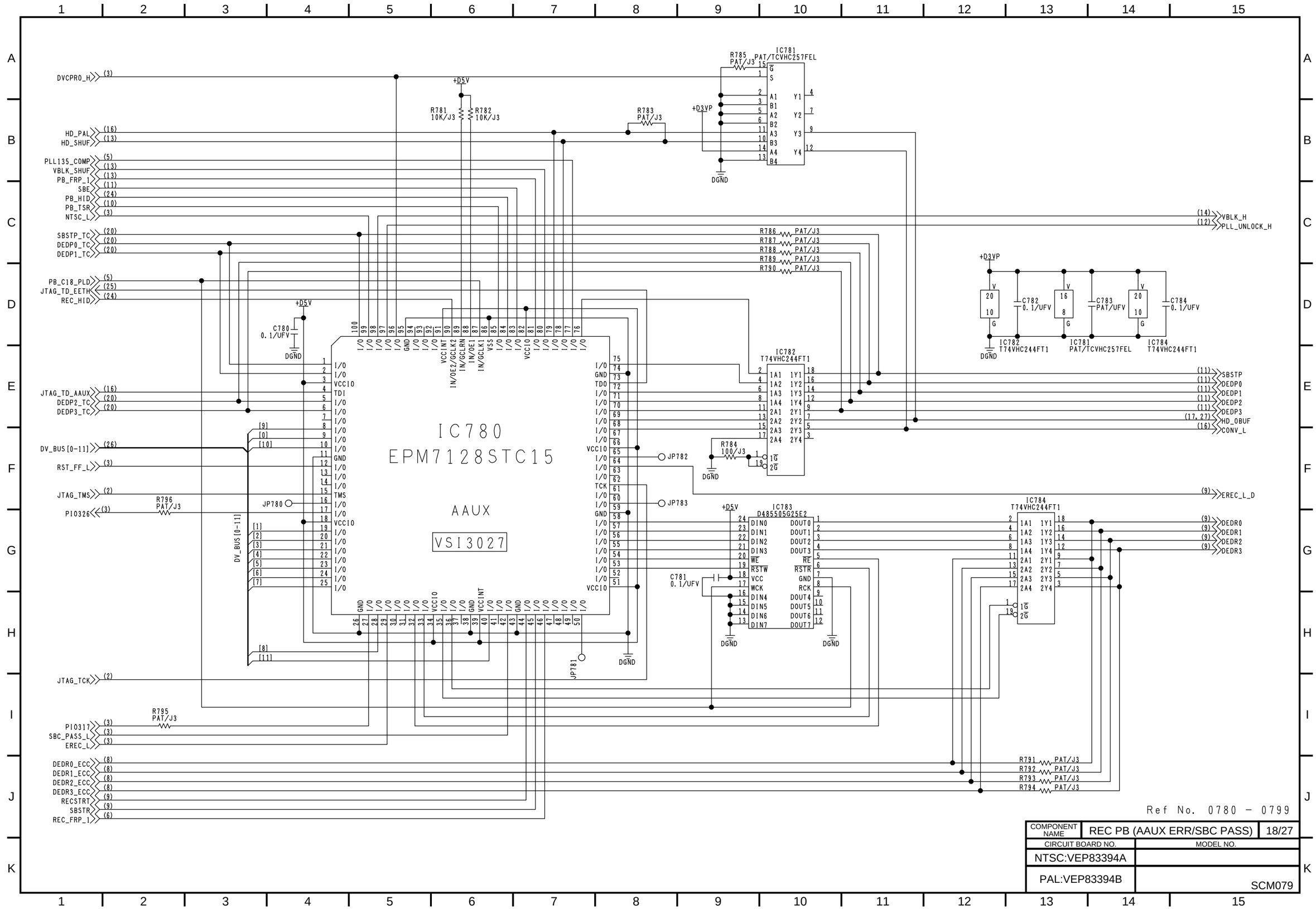
Ref No. 0670 - 0759

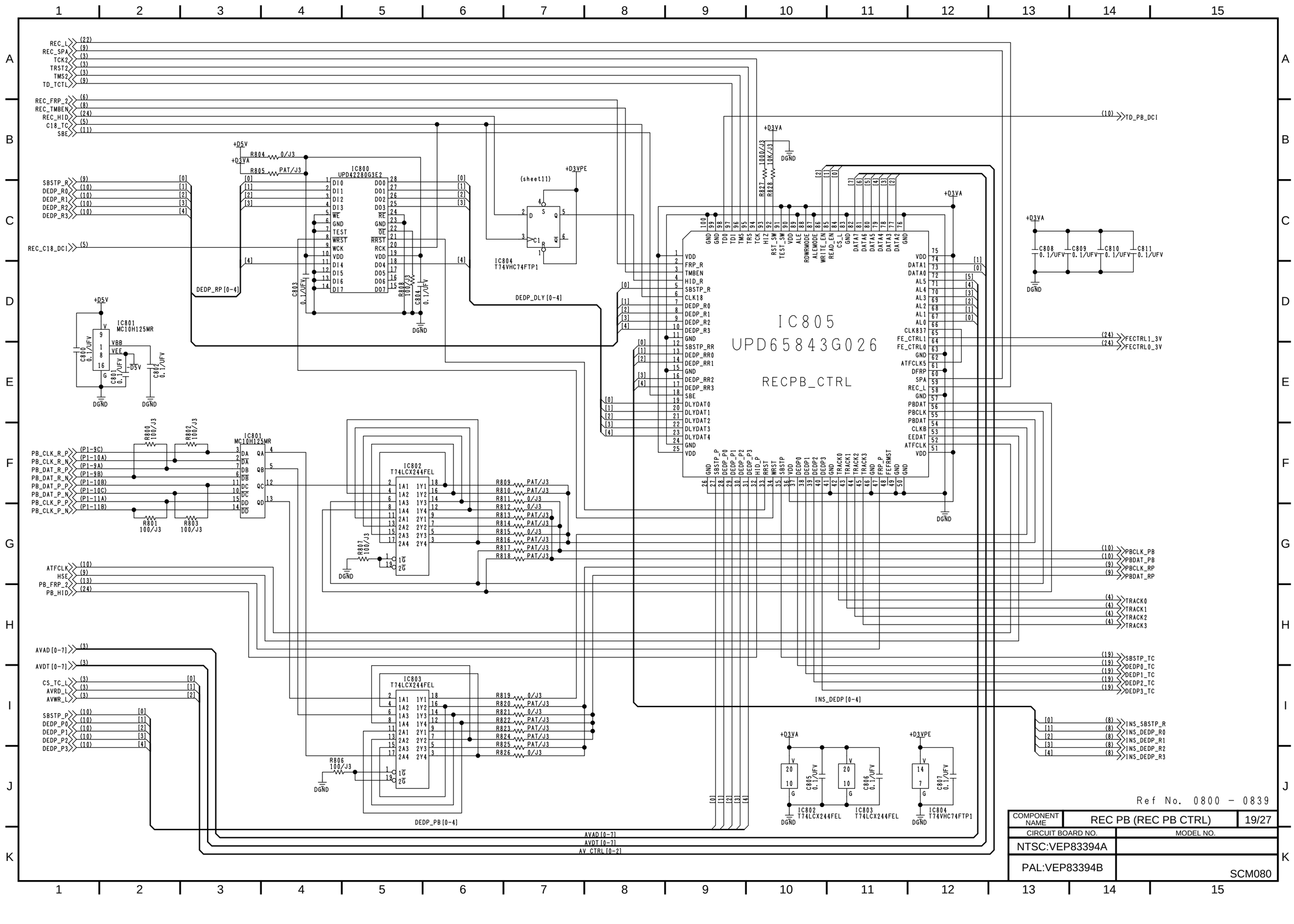
COMPONENT NAME	REC PB (FILTER TBC)	16/27
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP83394A		
PAL:VEP83394B		SCM077



Ref No. 0760 – 0779

COMPONENT NAME	REC PB (OUT BUFF)	17/27
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP83394A		
PAL:VEP83394B		SCM078


IC780
EPM7128STC15
AAUX
VSI3027
IC781
PAT/TCVHC257FEL
IC782
T74VHC244FT1
IC783
D485505G25E2
IC784
T74VHC244FT1
DVCPRO_H
HD_PAL
HD_SHUF
PLL135_COMP
VBLK_SHUF
PB_FRP_1
SBE
PB_HID
PB_TSR
NTSC_L
SBSTP_TC
DEDP0_TC
DEDP1_TC
PB_C18_PLD
JTAG_TD_EETH
REC_HID
JTAG_TD_AAUX
DEDP2_TC
DEDP3_TC
DV_BUS[0-11]
RST_FF_L
JTAG_TMS
PI0326
JTAG_TCK
PI0317
SBC_PASS_L
EREC_L
DEDR0_ECC
DEDR1_ECC
DEDR2_ECC
DEDR3_ECC
RECSTRT
SBSTR
REC_FRP_1
VBLK_H
PLL_UNLOCK_H
SBSTP
DEDP0
DEDP1
DEDP2
DEDP3
HD_OBUF
CONV_L
EREC_L_D
DEDR0
DEDR1
DEDR2
DEDR3
+D5V
+D3VP
DGND
JP780
JP781
JP782
JP783
C780 0.1/UFV
C781 0.1/UFV
C782 0.1/UFV
C783 PAT/UFV
C784 0.1/UFV
R781 10K/J3
R782 10K/J3
R783 PAT/J3
R784 100/J3
R785 PAT/J3
R786 PAT/J3
R787 PAT/J3
R788 PAT/J3
R789 PAT/J3
R790 PAT/J3
R791 PAT/J3
R792 PAT/J3
R793 PAT/J3
R794 PAT/J3
R795 PAT/J3
R796 PAT/J3
Ref No. 0780 – 0799
COMPONENT NAME
REC PB (AAUX ERR/SBC PASS)
18/27
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP83394A
PAL:VEP83394B
SCM079


IC805
UPD65843G026
RECPB_CTRL
IC800
UPD42280G3E2
IC801
MC10H125MR
IC802
T74LCX244FEL
IC803
T74LCX244FEL
IC804
T74VHC74FTP1
(sheet11)
REC_L
REC_SPA
TCK2
TRST2
TMS2
TD_TCTL
REC_FRP_2
REC_TMBEN
REC_HID
C18_TC
SBE
TD_PB_DCI
REC_C18_DCI
SBSTP_R
DEDP_R0
DEDP_R1
DEDP_R2
DEDP_R3
DEDP_RP [0-4]
DEDP_DLY [0-4]
DEDP_PB [0-4]
INS_DEDP [0-4]
AVAD [0-7]
AVDT [0-7]
AV_CTRL [0-2]
PB_CLK_R_P
PB_CLK_R_N
PB_DAT_R_P
PB_DAT_R_N
PB_DAT_P_P
PB_DAT_P_N
PB_CLK_P_P
PB_CLK_P_N
ATFCLK
HSE
PB_FRP_2
PB_HID
CS_TC_L
AVRD_L
AVWR_L
SBSTP_P
DEDP_P0
DEDP_P1
DEDP_P2
DEDP_P3
FECTRL1_3V
FECTRL0_3V
PBCLK_PB
PBDAT_PB
PBCLK_RP
PBDAT_RP
TRACK0
TRACK1
TRACK2
TRACK3
SBSTP_TC
DEDP0_TC
DEDP1_TC
DEDP2_TC
DEDP3_TC
INS_SBSTP_R
INS_DEDP_R0
INS_DEDP_R1
INS_DEDP_R2
INS_DEDP_R3
+D5V
+D3VA
+D3VPE
DGND
R804 0/J3
R805 PAT/J3
R827 1000/J3
R828 10K/J3
R818 100/J3
R800 100/J3
R802 100/J3
R801 100/J3
R803 100/J3
R807 100/J3
R806 100/J3
R809 PAT/J3
R810 PAT/J3
R811 0/J3
R812 0/J3
R813 PAT/J3
R814 PAT/J3
R815 0/J3
R816 PAT/J3
R817 PAT/J3
R818 PAT/J3
R819 0/J3
R820 PAT/J3
R821 0/J3
R822 PAT/J3
R823 PAT/J3
R824 PAT/J3
R825 PAT/J3
R826 0/J3
C800 0.1/UFV
C801 0.1/UFV
C802 0.1/UFV
C803 0.1/UFV
C804 0.1/UFV
C805 0.1/UFV
C806 0.1/UFV
C807 0.1/UFV
C808 0.1/UFV
C809 0.1/UFV
C810 0.1/UFV
C811 0.1/UFV
Ref No. 0800 - 0839
COMPONENT NAME
REC PB (REC PB CTRL)
19/27
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP83394A
PAL:VEP83394B
SCM080

IC840

UPD65868D022

VIDEO_DATA

TCK1 (3)
TRST1 (3)
TMS1 (3)
TD_VDAT (17)
TD_REC_SHUF (6)
RST_GA_L (3)
REC_VDAT_BDEN (7)
REC_BDCK (8)
REC_COMP_BQUIET (7)
R840 47/J3

REC_BD_VD[0-7]
REC_VDAT_BD0 (7) R841 47/J3 [0]
REC_VDAT_BD1 (7) R842 47/J3 [1]
REC_VDAT_BD2 (7) R843 47/J3 [2]
REC_VDAT_BD3 (7) R844 47/J3 [3]
REC_VDAT_BD4 (7) R845 47/J3 [4]
REC_VDAT_BD5 (7) R846 47/J3 [5]
REC_VDAT_BD6 (7) R847 47/J3 [6]
REC_VDAT_BD7 (7) R848 47/J3 [7]
RX[0-4] (27)
RX[0-4]

R854 10K/J3
C840 1000P/UV
R855 100/J3
DGND

PB_BD_VD[0-7]
PB_SAS_VD[0-4]
+D3VA
DGND

REC_AUD_HIZ12 (7)
REC_AUD_WR12 (7)
JP840
JP841
JP842

REC_SAS_VD[0-3] (6)
REC_SAS_VD[0-3]
REC_SASEN (6,27)

+D3VA
R849 10K/J3
R850 10K/J3

REC_C18_VD (5)
REC_C135_VD (5)
JP843

SI[0-15] (6)
SI[0-15]

R851 10K/J3
R852 10K/J3
R853 10K/J3
+D3VA
DGND

AVDT[0-7] (3)
AVDT[0-7]
AVAD[0-7] (3)
AVAD[0-7]

REC_INH_VD (6)
REC_INV_VD (6)
REC_FRP_2 (6)
CS_VD_L (3)
AVRD_L (3)
AVWR_L (3)

R858 10K/J3
R859 10K/J3
+D3VA
JP844
JP845
JP846
JP847
JP848
JP849
JP850

R856 10K/J3
R857 10K/J3

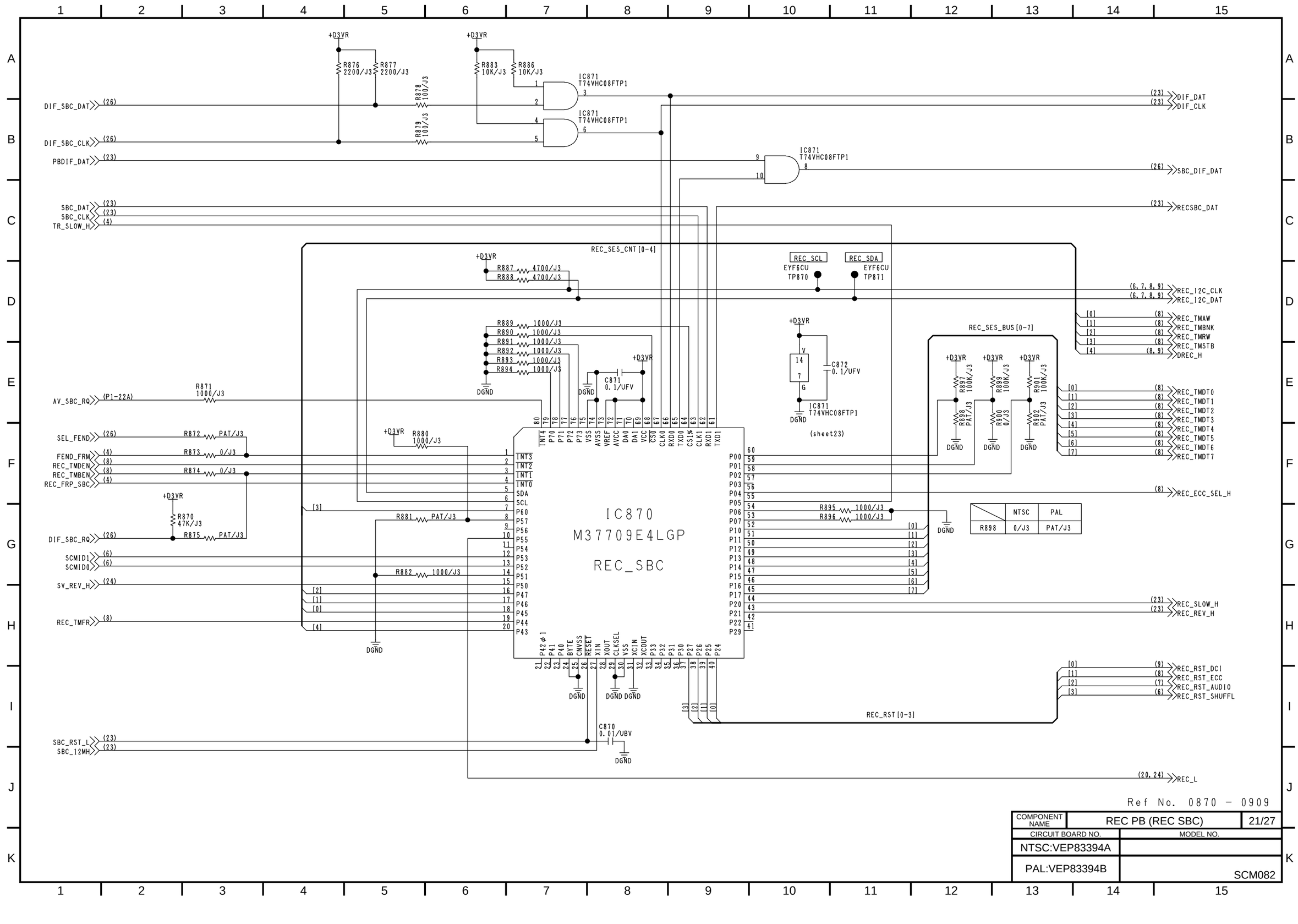
AUD_ADRS[0-13]

C841 0.1/UFV
C842 0.1/UFV
C843 0.1/UFV
C844 0.1/UFV
+D3VA
DGND

PB_FRP_2 (13)
PB_BQUIET (4)
PB_ECC_BDCK (11)
PB_BDEN (4)
PB_BD0 (28)
PB_BD1 (28)
PB_BD2 (28)
PB_BD3 (28)
PB_BD4 (28)
PB_BD5 (28)
PB_BD6 (28)
PB_BD7 (28)
PS[0-4] (27)
PB_SASDAT0 (13)
PB_SASDAT1 (13)
PB_SASDAT2 (13)
PB_SASDAT3 (13)
PB_SASEN (13)
FS_OBUF (3,17,27)
FF_OBUF (3,17,27)
ADR0_VD (12)
ADR1_VD (12)
ADR2_VD (12)
ADR3_VD (12)
ADR4_VD (12)
ADR5_VD (12)
ADR6_VD (12)
ADR7_VD (12)
ADR8_VD (12)
ADR9_VD (12)
ADR10_VD (12)
ADR11_VD (12)
ADR12_VD (12)
ADR13_VD (12)
PB_C18_VD (5)
PB_C135_VD (5)
LEAP (12,26)
APF18 (12)
SO_MIX[0-15] (14,15,27)
VBLK_VD (13)
HD_VD (13)
VBIEN (14)

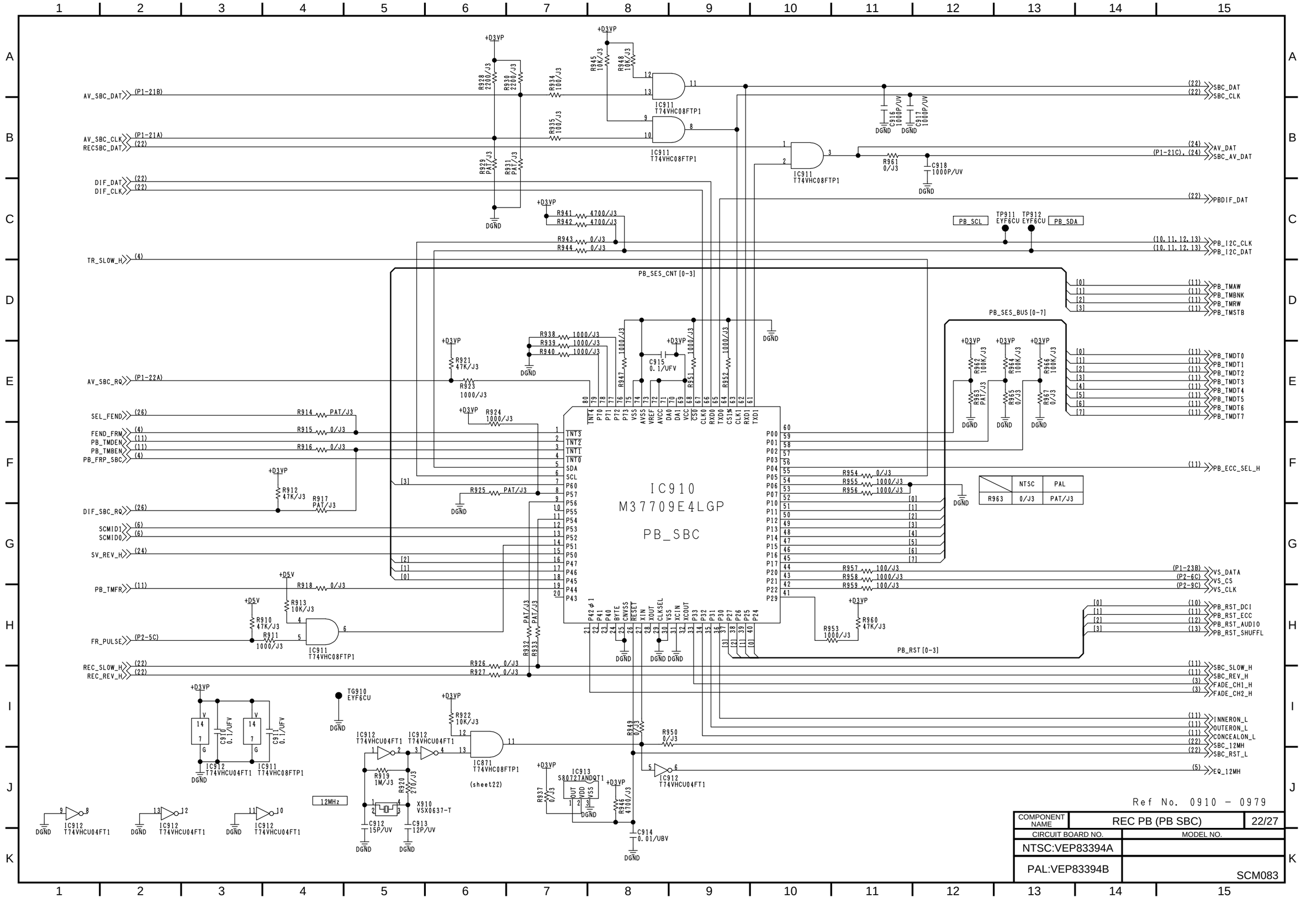
Ref No. 0840 - 0869

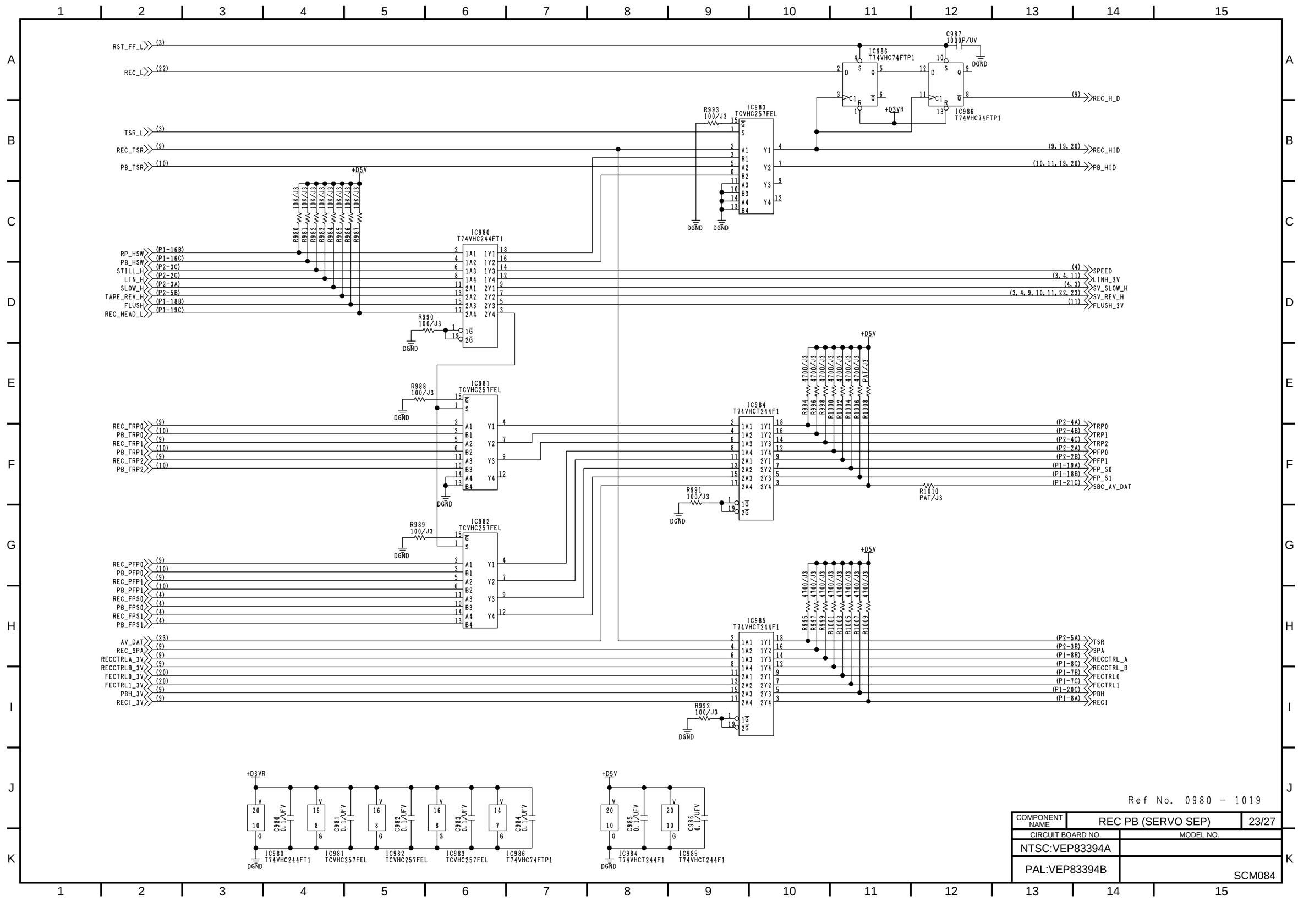
COMPONENT NAME	REC PB (VIDEO DATA)	20/27
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP83394A		
PAL:VEP83394B		SCM081

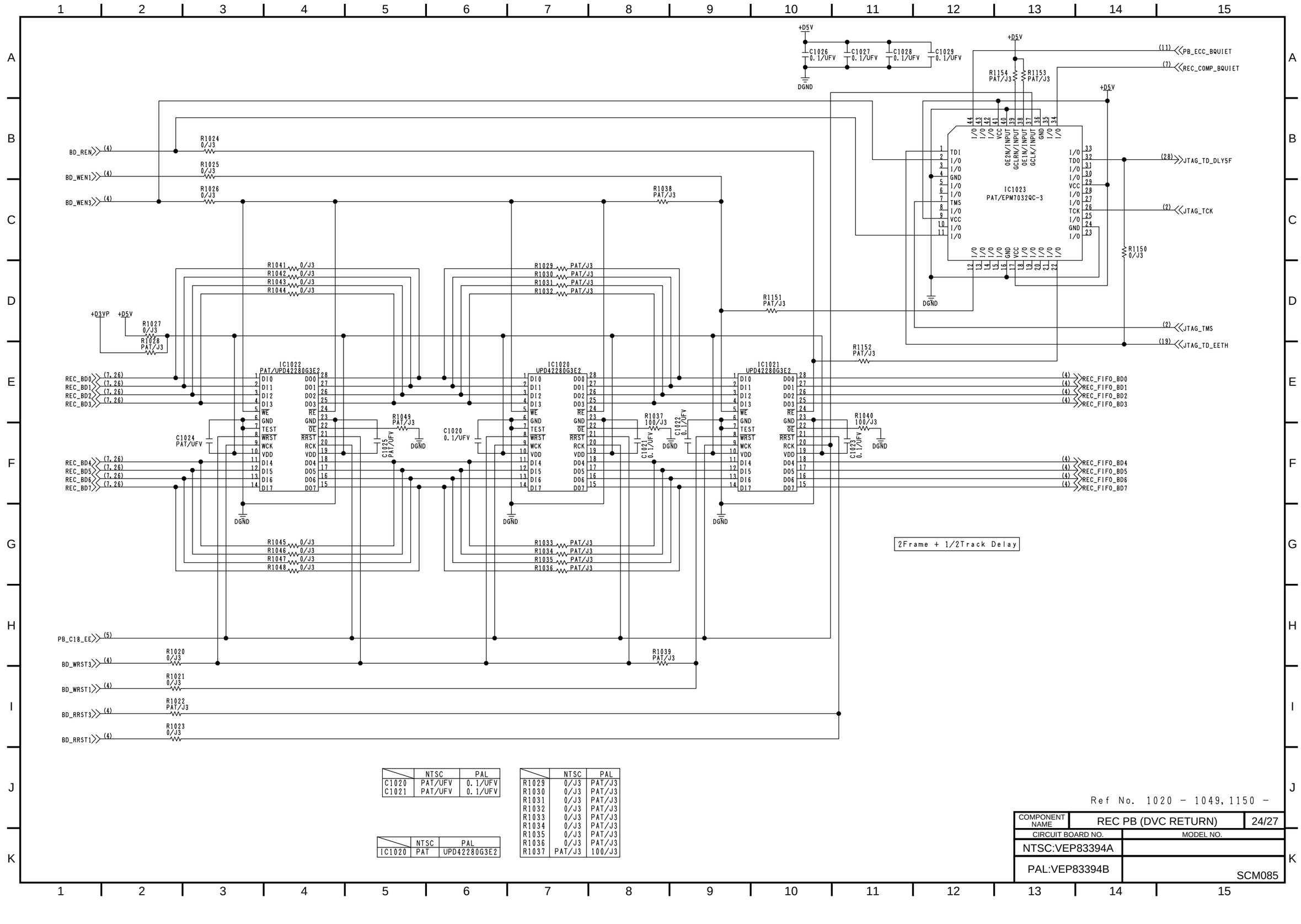


Ref No. 0870 – 0909

COMPONENT NAME	REC PB (REC SBC)	21/27
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP83394A		
PAL:VEP83394B		SCM082


IC910
M37709E4LGP
PB_SBC
IC911 T74VHC08FTP1
IC912 T74VHCU04FT1
IC871 T74VHC08FTP1
IC913 S80727ANDOT1
X910 VSX0637-T
12MHz
PB_SES_CNT[0-3]
PB_SES_BUS[0-7]
PB_RST[0-3]
AV_SBC_DAT
AV_SBC_CLK
RECSBC_DAT
DIF_DAT
DIF_CLK
TR_SLOW_H
AV_SBC_RQ
SEL_FEND
FEND_FRM
PB_TMDEN
PB_TMBEN
PB_FRP_SBC
DIF_SBC_RQ
SCMID1
SCMID0
SV_REV_H
PB_TMFR
FR_PULSE
REC_SLOW_H
REC_REV_H
SBC_DAT
SBC_CLK
AV_DAT
SBC_AV_DAT
PBDIF_DAT
PB_SCL
PB_SDA
PB_I2C_CLK
PB_I2C_DAT
PB_TMAW
PB_TMBNK
PB_TMRW
PB_TMSTB
PB_TMDT0
PB_TMDT1
PB_TMDT2
PB_TMDT3
PB_TMDT4
PB_TMDT5
PB_TMDT6
PB_TMDT7
PB_ECC_SEL_H
VS_DATA
VS_CS
VS_CLK
PB_RST_DCI
PB_RST_ECC
PB_RST_AUDIO
PB_RST_SHUFFL
SBC_SLOW_H
SBC_REV_H
FADE_CH1_H
FADE_CH2_H
INNERON_L
OUTERON_L
CONCEALON_L
SBC_12MH
SBC_RST_L
EQ_12MH
(sheet22)
NTSC PAL
R963 0/J3 PAT/J3
Ref No. 0910 - 0979
COMPONENT NAME
REC PB (PB SBC)
22/27
CIRCUIT BOARD NO.
NTSC:VEP83394A
PAL:VEP83394B
MODEL NO.
SCM083


RST_FF_L (3)
REC_L (22)
TSR_L (3)
REC_TSR (9)
PB_TSR (10)
IC986 T74VHC74FTP1
C987 1000P/UV
DGND
+D3VR
(9) REC_H_D
IC983 TCVHC257FEL
R993 100/J3
(9, 19, 20) REC_HID
(10, 11, 19, 20) PB_HID
+D5V
R980 10K/J3
R981 10K/J3
R982 10K/J3
R983 10K/J3
R984 10K/J3
R985 10K/J3
R986 10K/J3
R987 10K/J3
IC980 T74VHC244FT1
RP_HSW (P1-16B)
PB_HSW (P1-16C)
STILL_H (P2-3C)
LIN_H (P2-2C)
SLOW_H (P2-3A)
TAPE_REV_H (P2-5B)
FLUSH (P1-18B)
REC_HEAD_L (P1-19C)
(4) SPEED
(3, 4, 11) LINH_3V
(4, 3) 5V_SLOW_H
(3, 4, 9, 10, 11, 22, 23) 5V_REV_H
(11) FLUSH_3V
R990 100/J3
IC981 TCVHC257FEL
R988 100/J3
REC_TRP0 (9)
PB_TRP0 (10)
REC_TRP1 (9)
PB_TRP1 (10)
REC_TRP2 (9)
PB_TRP2 (10)
IC984 T74VHCT244F1
R994 4700/J3
R996 4700/J3
R998 4700/J3
R1000 4700/J3
R1002 4700/J3
R1004 4700/J3
R1006 4700/J3
R1008 PAT/J3
(P2-4A) TRP0
(P2-4B) TRP1
(P2-4C) TRP2
(P2-2A) PFP0
(P2-2B) PFP1
(P1-19A) FP_S0
(P1-18B) FP_S1
(P1-21C) SBC_AV_DAT
R1010 PAT/J3
R991 100/J3
IC982 TCVHC257FEL
R989 100/J3
REC_PFP0 (9)
PB_PFP0 (10)
REC_PFP1 (9)
PB_PFP1 (10)
REC_FPS0 (4)
PB_FPS0 (4)
REC_FPS1 (4)
PB_FPS1 (4)
IC985 T74VHCT244F1
R995 4700/J3
R997 4700/J3
R999 4700/J3
R1001 4700/J3
R1003 4700/J3
R1005 4700/J3
R1007 4700/J3
R1009 4700/J3
AV_DAT (23)
REC_SPA (9)
RECCTRLA_3V (9)
RECCTRLB_3V (9)
FECTRL0_3V (20)
FECTRL1_3V (20)
PBH_3V (9)
RECI_3V (9)
(P2-5A) TSR
(P2-3B) SPA
(P1-8B) RECCTRL_A
(P1-8C) RECCTRL_B
(P1-7B) FECTRL0
(P1-7C) FECTRL1
(P1-20C) PBH
(P1-8A) RECI
R992 100/J3
+D3VR
C980 0.1/UFV
C981 0.1/UFV
C982 0.1/UFV
C983 0.1/UFV
C984 0.1/UFV
IC980 T74VHC244FT1
IC981 TCVHC257FEL
IC982 TCVHC257FEL
IC983 TCVHC257FEL
IC986 T74VHC74FTP1
+D5V
C985 0.1/UFV
C986 0.1/UFV
IC984 T74VHCT244F1
IC985 T74VHCT244F1
Ref No. 0980 – 1019
COMPONENT NAME
REC PB (SERVO SEP)
23/27
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP83394A
PAL:VEP83394B
SCM084



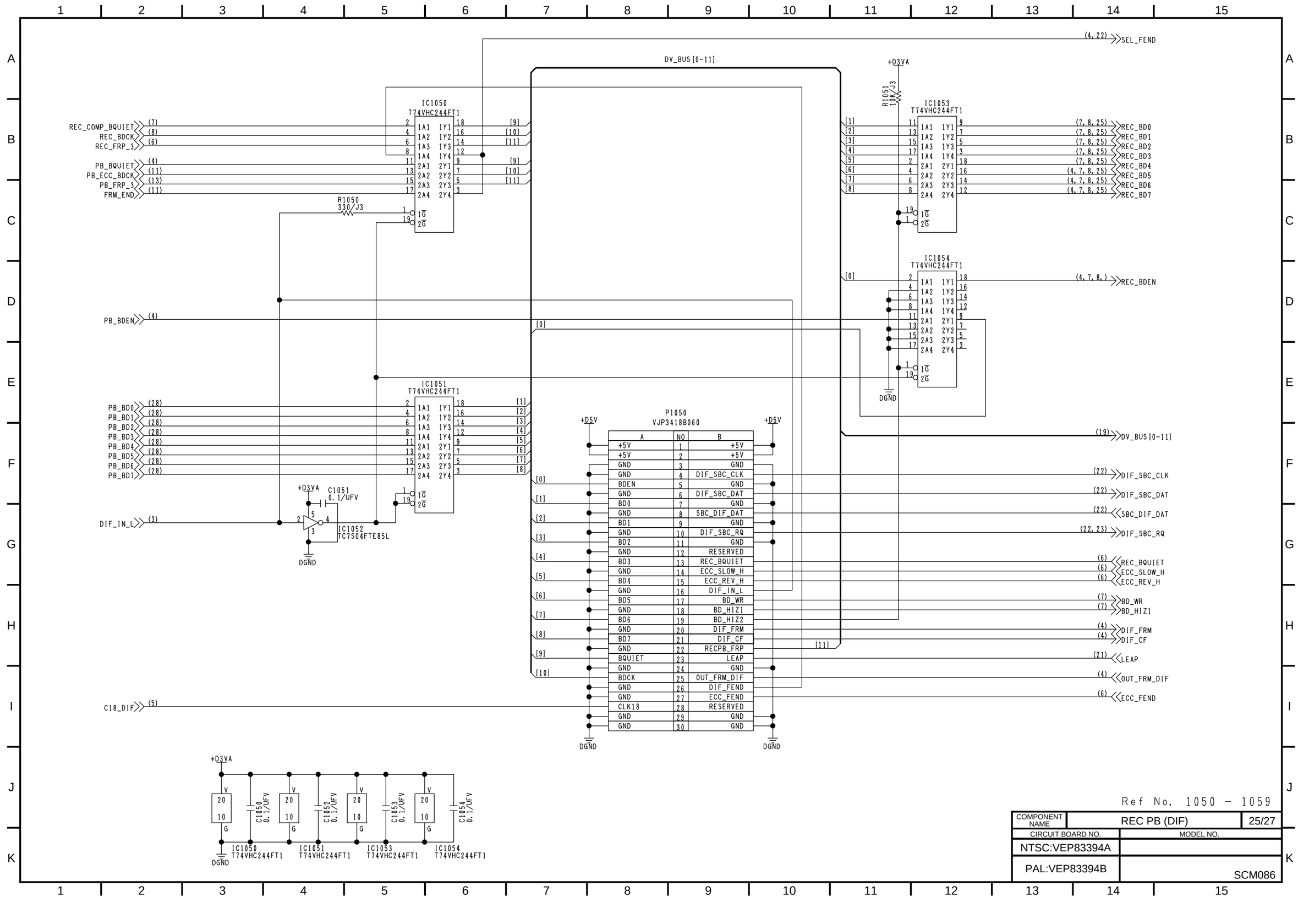
	NTSC	PAL
C1020	PAT/UFV	0.1/UFV
C1021	PAT/UFV	0.1/UFV

	NTSC	PAL
IC1020	PAT	UPD42280G3E2

	NTSC	PAL
R1029	0/J3	PAT/J3
R1030	0/J3	PAT/J3
R1031	0/J3	PAT/J3
R1032	0/J3	PAT/J3
R1033	0/J3	PAT/J3
R1034	0/J3	PAT/J3
R1035	0/J3	PAT/J3
R1036	0/J3	PAT/J3
R1037	PAT/J3	100/J3

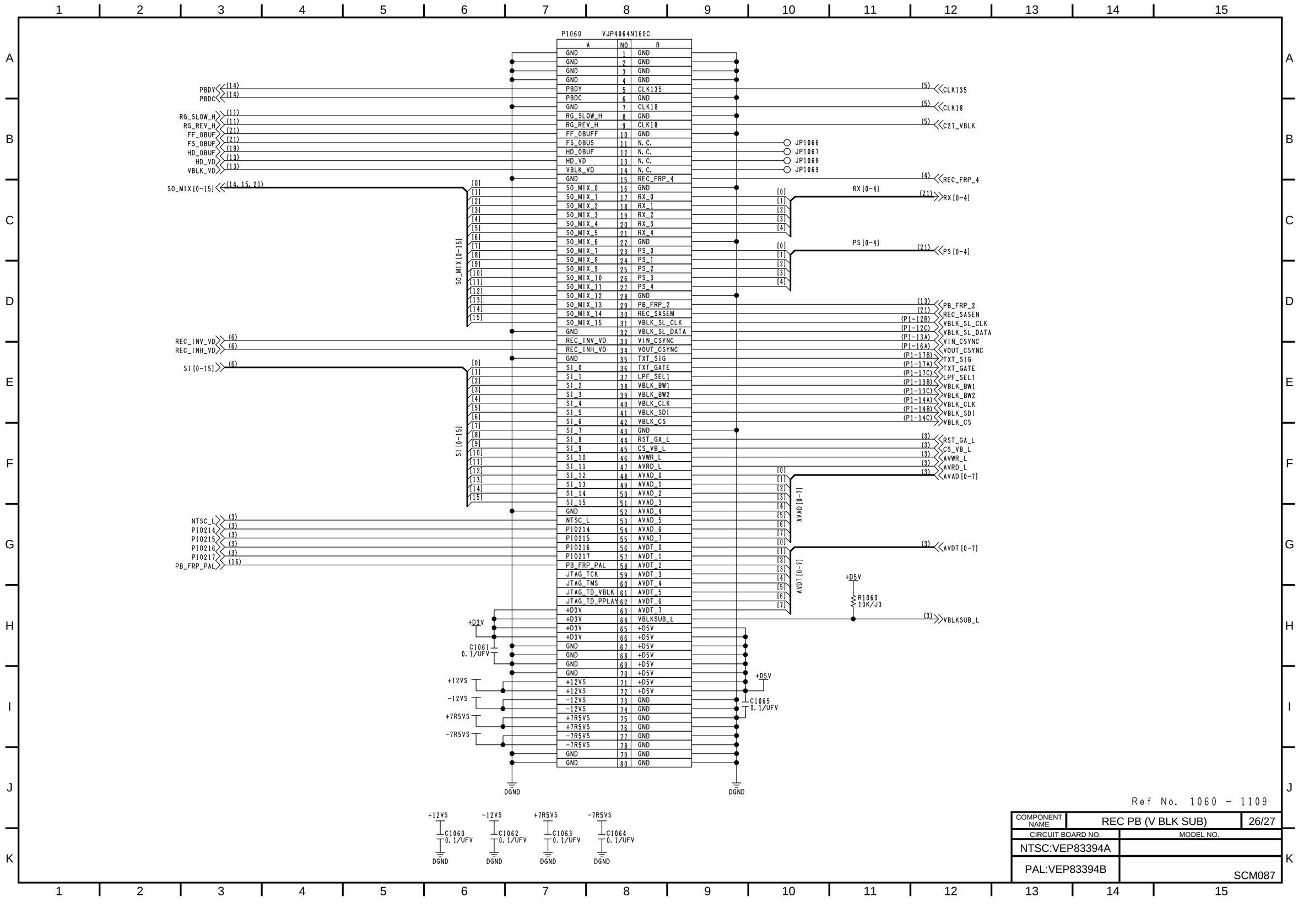
Ref No. 1020 - 1049, 1150 -

COMPONENT NAME	REC PB (DVC RETURN)	24/27
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP83394A		
PAL:VEP83394B		SCM085



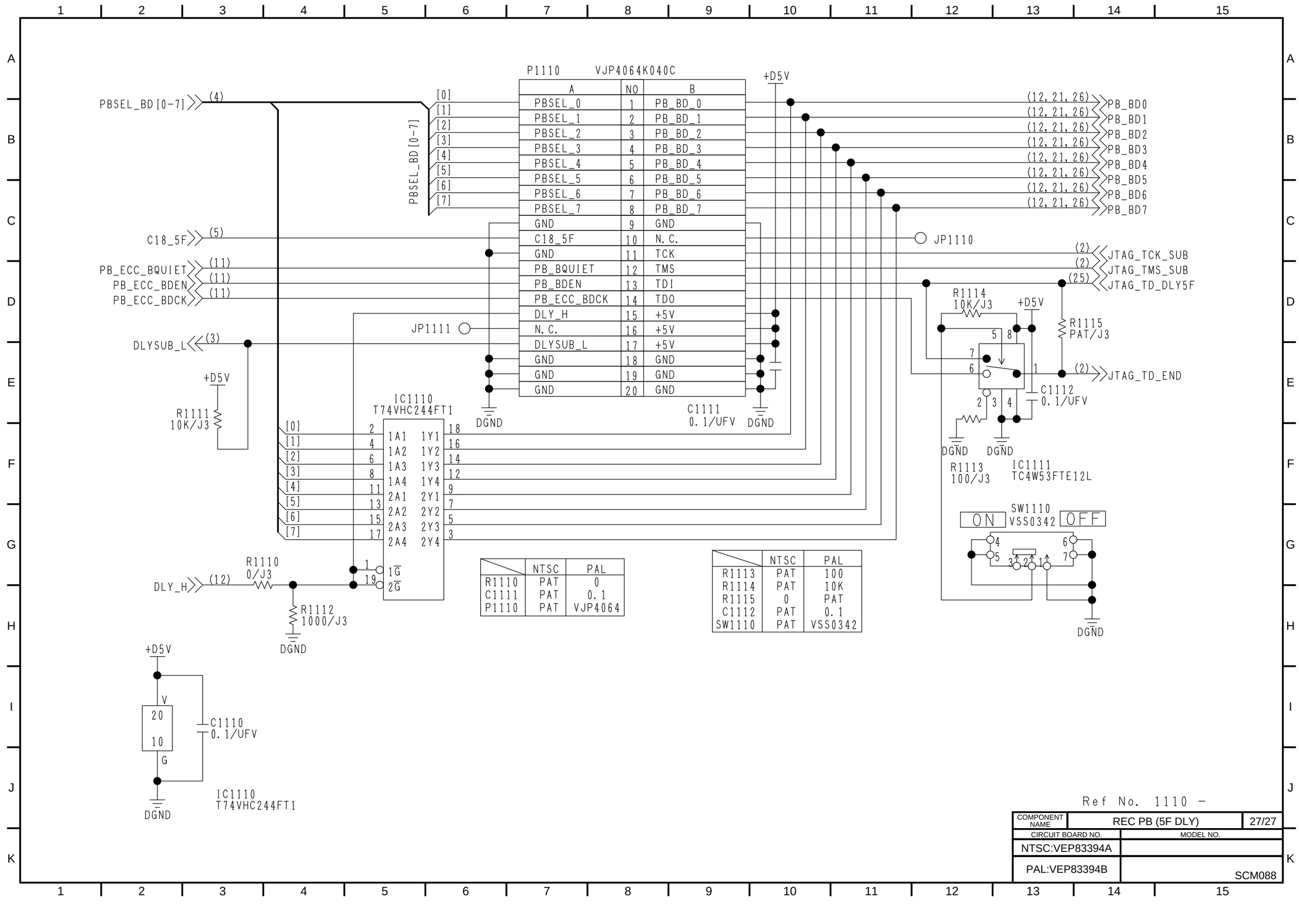
Ref No. 1050 - 1059

COMPONENT NAME	REC PB (DIF)	25/27
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP83394A		
PAL:VEP83394B	SCM086	



Ref No. 1060 - 1109

COMPONENT NAME	REC PB (V BLK SUB)	26/27
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP83394A		
PAL:VEP83394B		SCM087


P1110 VJP4064K040C
A NO B
PBSEL_0 1 PB_BD_0
PBSEL_1 2 PB_BD_1
PBSEL_2 3 PB_BD_2
PBSEL_3 4 PB_BD_3
PBSEL_4 5 PB_BD_4
PBSEL_5 6 PB_BD_5
PBSEL_6 7 PB_BD_6
PBSEL_7 8 PB_BD_7
GND 9 GND
C18_5F 10 N. C.
GND 11 TCK
PB_BQUIET 12 TMS
PB_BDEN 13 TDI
PB_ECC_BDCK 14 TDO
DLY_H 15 +5V
N. C. 16 +5V
DLYSUB_L 17 +5V
GND 18 GND
GND 19 GND
GND 20 GND
PBSEL_BD[0-7]
(4)
[0]
[1]
[2]
[3]
[4]
[5]
[6]
[7]
C18_5F
(5)
PB_ECC_BQUIET
PB_ECC_BDEN
PB_ECC_BDCK
(11)
DLYSUB_L
(3)
JP1111
+D5V
DGND
C1111
0. 1/UFV
R1111
10K/J3
IC1110
T74VHC244FT1
1A1 1Y1 1A2 1Y2 1A3 1Y3 1A4 1Y4
2A1 2Y1 2A2 2Y2 2A3 2Y3 2A4 2Y4
1G
2G
R1110
0/J3
DLY_H
(12)
R1112
1000/J3
(12, 21, 26)
PB_BD0
PB_BD1
PB_BD2
PB_BD3
PB_BD4
PB_BD5
PB_BD6
PB_BD7
JP1110
(2)
JTAG_TCK_SUB
JTAG_TMS_SUB
(25)
JTAG_TD_DLY5F
JTAG_TD_END
R1114
10K/J3
R1115
PAT/J3
C1112
0. 1/UFV
R1113
100/J3
IC1111
TC4W53FTE12L
SW1110
VSS0342
ON
OFF
NTSC PAL
R1110 PAT 0
C1111 PAT 0. 1
P1110 PAT VJP4064
R1113 PAT 100
R1114 PAT 10K
R1115 0 PAT
C1112 PAT 0. 1
SW1110 PAT VSS0342
V
20
10
G
C1110
0. 1/UFV
IC1110
T74VHC244FT1
Ref No. 1110 –
COMPONENT NAME
REC PB (5F DLY)
27/27
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP83394A
PAL:VEP83394B
SCM088